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Industrial University
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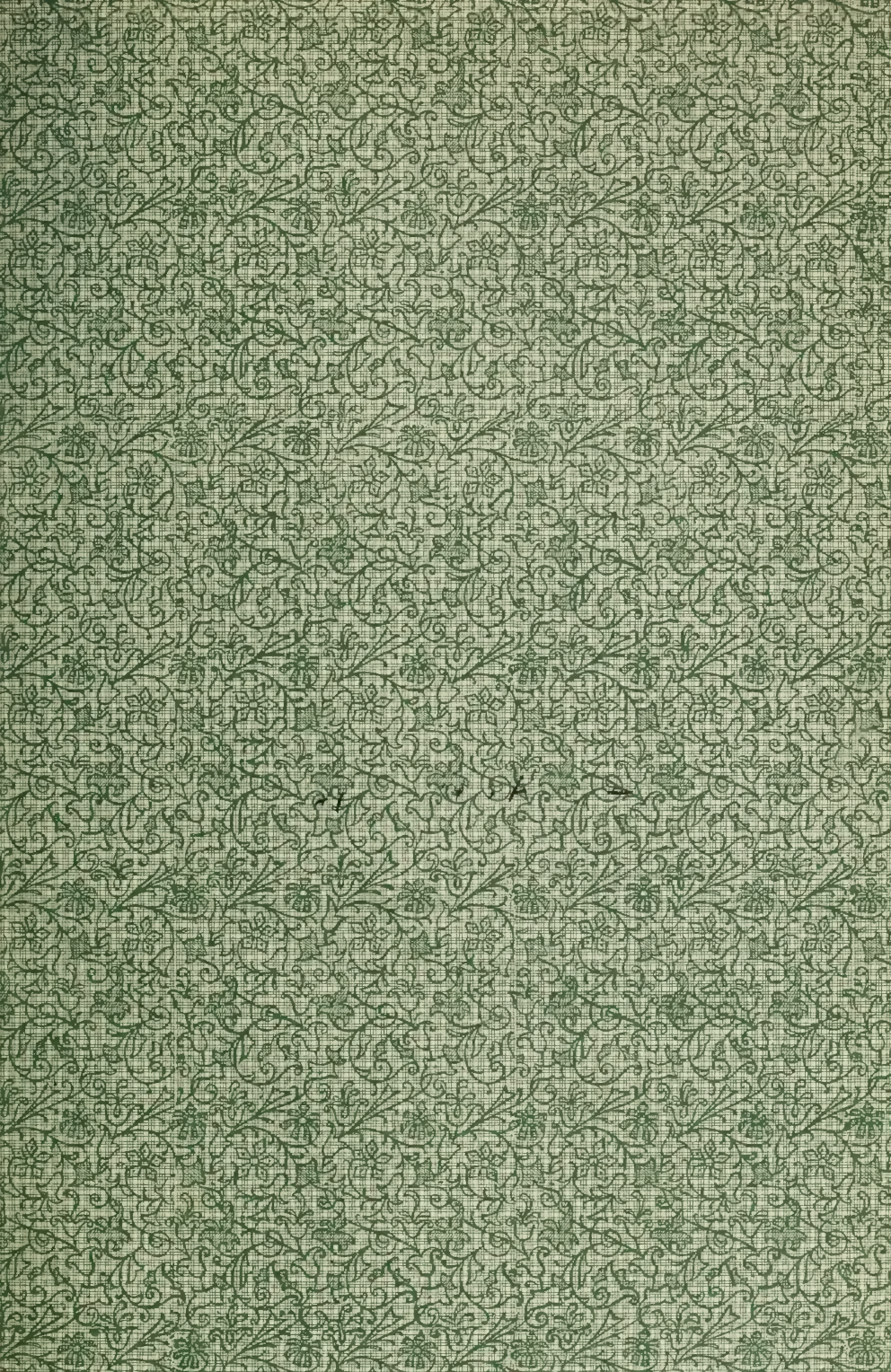
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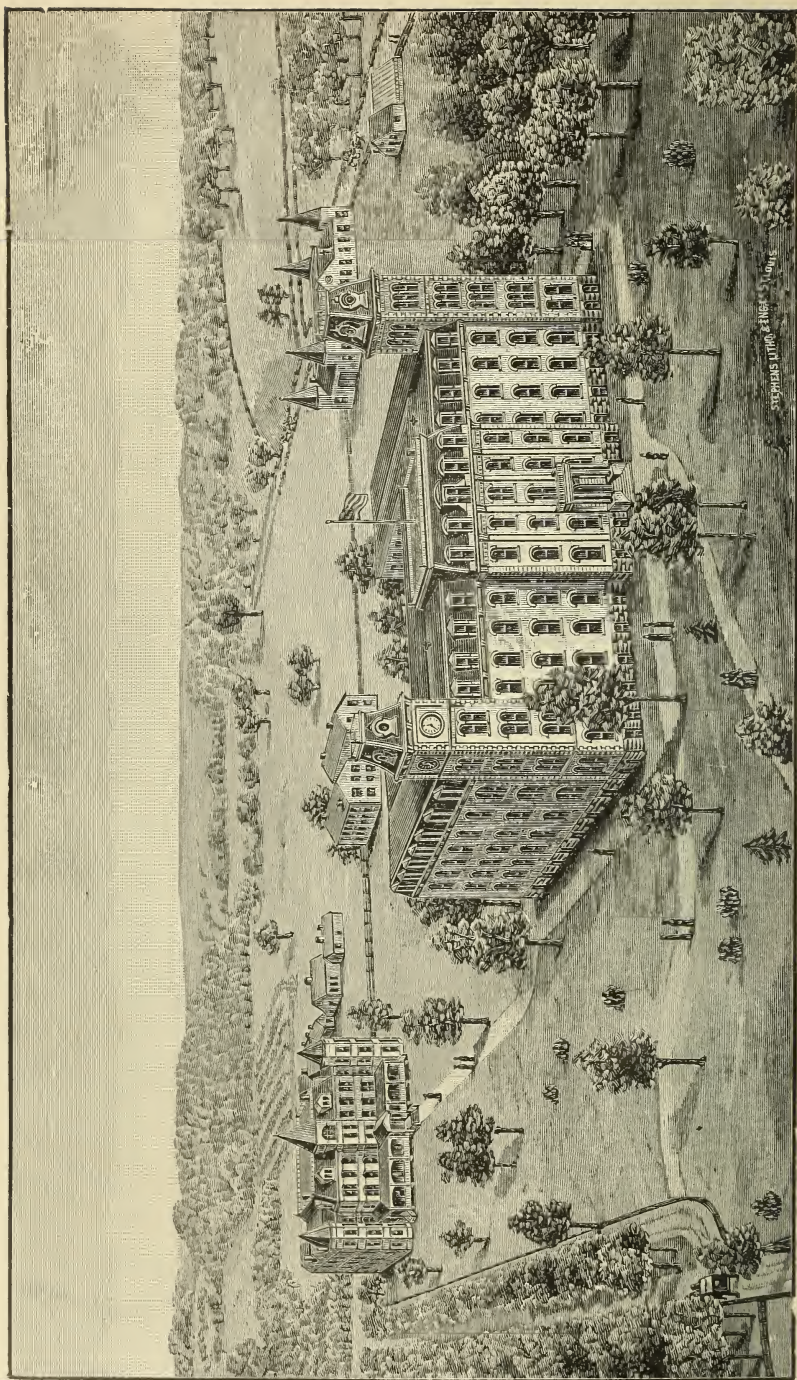
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ARKANSAS INDUSTRIAL UNIVERSITY, FAYETTEVILLE.

TWENTY-SECOND CATALOGUE

OF THE

Arkansas Industrial University

FAYETTEVILLE, WASHINGTON COUNTY, ARK.

MEDICAL AND LAW SCHOOLS, AT LITTLE ROCK.
BRANCH NORMAL COLLEGE, AT PINE BLUFF.

1894.

ANNOUNCEMENTS FOR 1895

CALENDAR FOR 1894-95.

1894.

SEPTEMBER 4—Session begins at the Branch Normal College at Pine Bluff.

OCTOBER 3—Preliminary course begins in Medical School at Little Rock.

OCTOBER 2—Fall term begins in Law School at Little Rock.

NOVEMBER 1—Session begins in the Medical School at Little Rock.

1895.

JANUARY 31—Fall term closes in Law School at Little Rock.

FEBRUARY 1—Spring term begins in Law School at Little Rock.

MARCH 5—First term begins in all departments at Fayetteville.

MARCH 5-8—Examinations for admission in all departments at Fayetteville.

APRIL 8—Session of the Medical School at Little Rock ends.

MAY 30—Decoration Day, a holiday.

MAY 31—First term ends in all departments at Fayetteville.

JUNE 1—Spring term closes in Law School.

JUNE 3—Second term begins in all departments at Fayetteville.

JUNE 5—Session ends at Branch Normal College at Pine Bluff.

JULY 4—A holiday.

AUGUST 30—Second term ends in all departments at Fayetteville.

SEPTEMBER 2—Third term begins in all departments at Fayetteville.

NOVEMBER 28—Thanksgiving, a holiday.

DECEMBER 1—Baccalaureate sermon.

DECEMBER 5—Commencement in all departments at Fayetteville.

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THE UNIVERSITY AND THE STATE.

The University is at the head of the public educational system of the State of Arkansas. It seeks to foster the higher educational interests of the State, broadly and generously interpreted, and to make provision for the demands of advanced scholarship in as many lines as its means will permit. It is the aim of its Faculty and Board of Trustees, from year to year, to bring it into still closer articulation with the public schools of the State, and in connection with them to afford to all the youth of either sex ample facilities for liberal education in literature, science, and the industrial arts, and for the professional studies.

Through the aid received from the United States and from the State of Arkansas, the University is enabled to offer free tuition, except in the studies of law and medicine, and thus to open wide her doors to all seekers of learning.

The institution was established in accordance with an act of Congress making a grant of land for its benefit, and in accordance with an act of the General Assembly of this State carrying out the object of said grant.

LOCATION.

The University, except its Medical and Law Schools and Branch Normal College, is located at Fayetteville, Washington County, in northwestern Arkansas. It is therefore situated in the heart of the Ozark Mountains, and is more than sixteen hundred feet above the sea level. The location is thought to be unsurpassed by any other locality in the State in salubrity of climate, beauty of surrounding

scenery, fertility of soil, variety and perfection of agricultural and horticultural productions, and in the morality and intelligence of its people.

Students may reach Fayetteville from both the north and the south by the Texas branch of the St. Louis and San Francisco Railroad, now running two trains daily each way, connecting on the south with the Little Rock and Fort Smith Railroad at Van Buren.

BUILDINGS.

The main building of the University (see frontispiece) is a magnificent structure of brick with stone trimmings and basement. It is 4 stories in height. It occupies three sides of a quadrangle and has a frontage of 214 feet and a depth of 124 feet.

In the north wing are situated the Armory in the basement, the Chapel on the first floor, the Library and Reading Room on the second, the Engineering Drawing Room on the third floor, and the Examination Hall on the fourth floor. In the south wing the Engineering Laboratory occupies the basement, the hall for boys of the Preparatory Department the first floor, the hall for girls the second floor, lecture room, class rooms and offices of the Engineering Department the third floor, and the Natural History Museum the fourth floor.

The main front of the building contains in the basement the rooms used for electrical engineering, the testing room, the store room, the photometry room, and the storage battery room; the offices of the President and Commandant, and recitation rooms for mathematics, music, and for the Preparatory Department on the first floor; the second floor is occupied by class rooms for elocution, English, Latin, Greek, modern languages, mathematics, history, vocal music, and the offices of the Secretary of the Board of Trustees and the Principal of the Preparatory Department;

on the third floor are situated the class rooms and laboratories of Biology and Geology; the literary societies occupy the fourth floor.

This building covers an area of 26,108 square feet, and contains seventy rooms, together with broad corridors and ample stairways. As a safeguard against fire and to insure uniform temperature, the building is heated throughout by steam.

THE NEW LABORATORY BUILDING.

The new laboratory for Chemistry and Physics, erected during the summer of 1893 is a substantial two-story brick building 50x60 feet. On the first floor are the lecture rooms of the two departments, the physical laboratory and storeroom, and also the private laboratory of the professor in charge. On the second floor are the chemical laboratories, including a laboratory of general chemistry, a laboratory for qualitative analysis, and a laboratory devoted to quantitative analysis, also the storeroom for chemical supplies, the weighing room, and the hallway, which is also used as a coat room. A dumb waiter connects the first and second stories.

The building is supplied with gas and water and with the best modern appliances for technical work. It will accommodate about a hundred students.

THE OLD DORMITORY.

The old dormitory is a two-story frame building. It contains a dining hall, kitchens, and storerooms, and will accommodate about fifty students.

THE NEW DORMITORY.

The new dormitory is a substantial brick building, 3 stories high, containing over forty rooms. In finish and appearance it is a model structure. The rooms are large, airy, well ventilated and lighted, and open into broad corridors extending lengthwise through the building. The entrances

are five in number, three in front, which open upon a broad veranda, and two in the rear. As to location, every precaution has been taken to insure good health to its occupants, and a suite of rooms is fitted up for hospital purposes.

THE NEW BATH HOUSE.

In the fall of 1893 a new bath house was erected for the benefit of the students of the dormitories. It is 16x18 feet in size, contains three tubs, and is otherwise completely equipped.

AGRICULTURAL BUILDINGS.

The building of the Agricultural Experiment Station is of brick, one story in height. It contains the office of the Director, the laboratories of the Chemist, Horticulturist, Veterinarian, and Entomologist, the museum, and several commodious storerooms. Connected with the Department of Agriculture are a large barn, stock shed, dairy house, fruit house, and other necessary outbuildings.

THE SHOP BUILDING.

The Shop Building was erected in the spring of 1889. It is of corrugated iron, 170 feet long, 40 feet wide, and one story high, with ample light and ventilation. The Wood Room is 40x60 feet in size, the Metal Room 40x40, the Forge Room 40x25, and the Foundry 40x45 feet. During the fall of 1892 an addition to the shops, 20x40 feet, was built almost entirely by the students.

LIBRARY.

The Library occupies the north wing of the main building, second floor. It now contains 7,000 volumes, with numerous pamphlets, maps, charts, etc. Shelves are provided for 14,000 volumes, with room for expansion.

The alcoves are separated from the library hall by an iron railing; and only advanced students are permitted to



LIBRARY.

enter and to have direct access to the shelves. The general reference works, however, are outside the railing.

The Dewey decimal system of classification and the Cutter book-numbers are used, thereby simplifying to a great degree the circulation of books and the general care of the Library.

The Reading Room contains, on Athenæum newspaper files, nearly all the papers published in Arkansas, and also the St. Louis and Memphis dailies.

The leading high-class periodicals (including magazines, reviews and various technical monthlies) are regularly taken, and are bound as they accumulate. This vast fund of current literature is rendered more useful and accessible by "Poole's Complete Index" to periodic literature from 1802 to the present time.

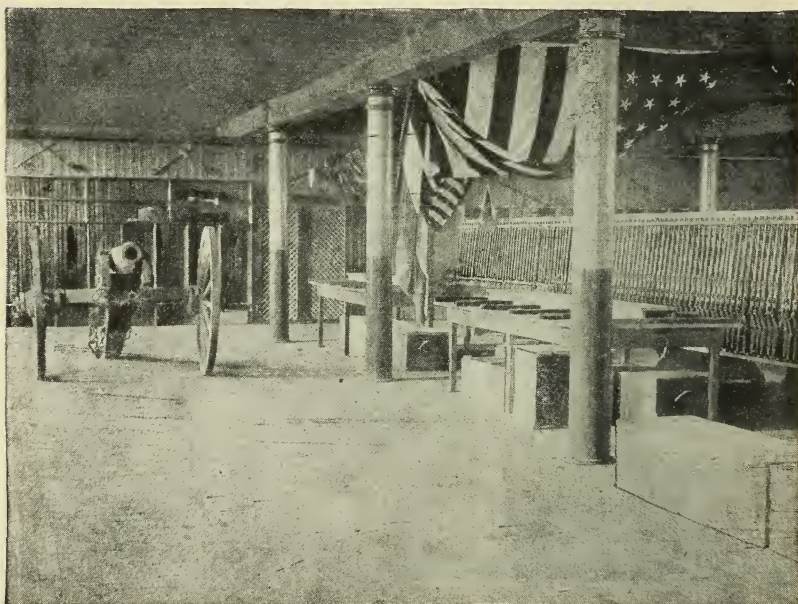
Among the works of general reference in the Library are all the best encyclopedias and dictionaries.

The card catalogue in preparation will facilitate reference and will greatly increase the usefulness and popularity of the Library.

The privileges of both Library and Reading Room are free to all students.

THE ARMORY.

The Armory is a large, well lighted room, 60x80 feet, situated in the basement of the north wing of the main building. It is substantially fitted up with all necessary conveniences, such as arm racks, compartments for equipments,



ARMORY.

uniforms, and band instruments. In this room drills are held during inclement weather, and it is also used as a room for band practice.

The equipment consists of 243 Springfield Cadet rifles, of the same model as those used at the United States Military Academy at West Point; 243 sets of infantry equipments, each set consisting of one waist belt and plate, a cartridge box and a bayonet scabbard; one set of band instruments, 18 pieces, same quality as used in the regular

army; one 12-pounder smooth bore cannon; also swords, flags, colors, etc. The arm and rifle equipments are furnished by the United States, and the band instruments by the State. A liberal supply of ammunition is furnished by the general government for target practice. The equipment is sufficient for a battalion of 275 cadets.

MUSEUMS.

The University has two Museums, which are of great value in furnishing materials for the illustration of scientific studies and of the industrial arts.

MUSEUM OF NATURAL HISTORY.

The Museum occupies the fourth floor of the south wing of the main building. Adjoining it are two rooms, one being used for the storage of alcoholic specimens, the other for taxidermy. The collections in the Museum at present comprise the following:

200 birds and mammals, 80 species

200 reptiles and amphibians, 40 species.

500 fishes, 150 species.

1,000 insects and other invertebrates, 200 species.

18 skeletons.

3,500 plants, 1,500 species.

1,500 fossils, 230 species.

400 minerals, 200 species.

150 specimens of rocks representing about 100 varieties of building and ornamental stones.

A few archæological specimens, also a few anatomical and physiological preparations.

Except fishes, invertebrates, minerals, and fossils, most of our collections are from Arkansas.

Professor Meek has deposited in the Museum his private collection of about 250 species, consisting mostly of the lower vertebrates.

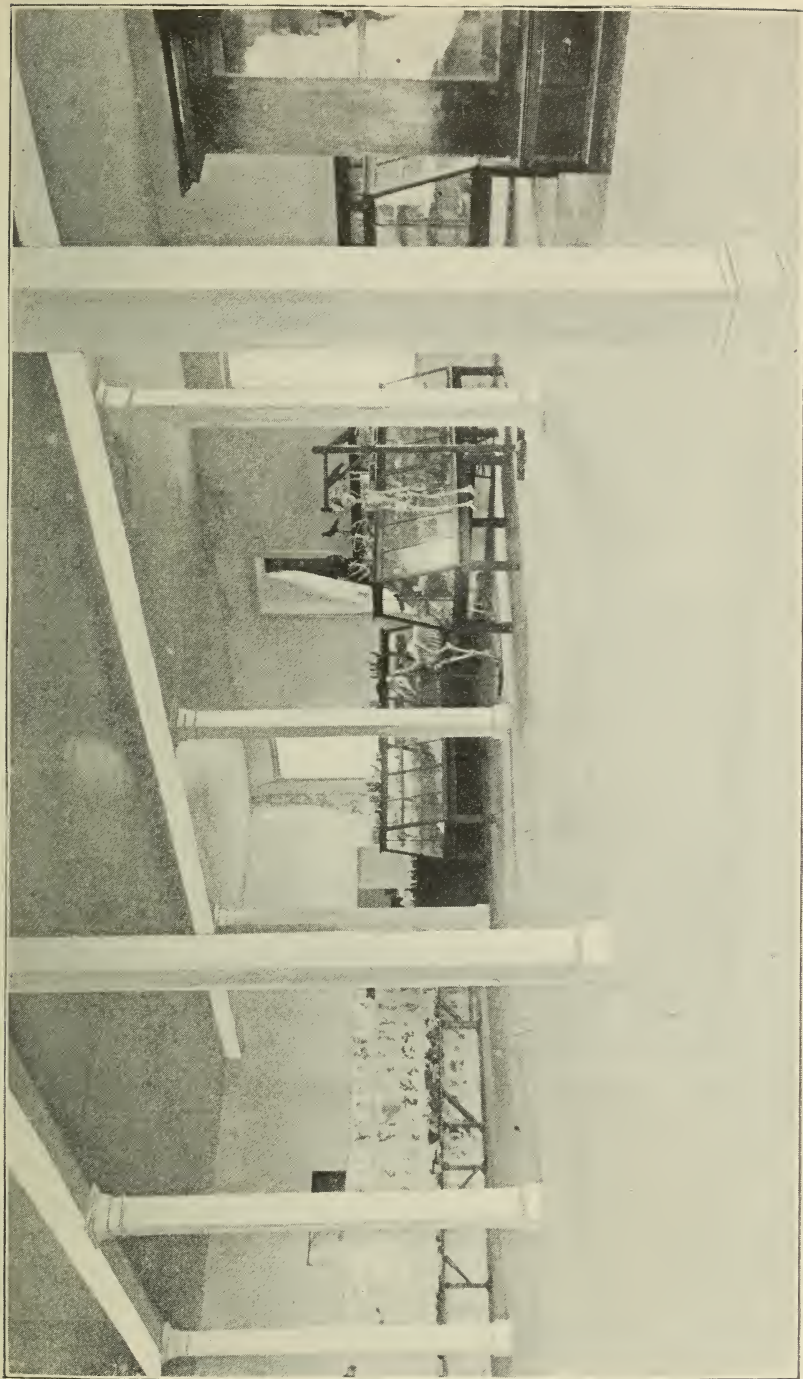
Our aim is to make the Museum of more practical and educational value, and to this end we would invite the co-operation of all the people of the State in completing our collections in one or more directions indicated below :

1. An exhibition of valuable rock materials used in construction, architecture, and the arts.
2. An exhibition of native ores, with specimens illustrating the metallurgy of useful metals.
3. Collections of plants and animals of the country, including fossil species.
4. Historical and archæological collections.

The Museum will gratefully acknowledge donations of various objects, and the donors may be sure that anything of value sent to it will be carefully preserved and duly credited to the donor. Collections in the hands of private parties are likely to be soon scattered or spoiled through improper care and handling. The Museum is now prepared to receive collections on deposit, and to preserve and display them under the owner's name until called for. In this way owners of interesting collections are usually much more certain of having their collections permanently preserved, and the collections will be seen by more people and become more useful.

Through the kindness of the 'Frisco and Eureka Springs Railways the curator has been much aided in making collections in northwestern Arkansas, these roads having furnished him with free transportation over their lines in Arkansas.

While our Museum is most important on account of its educational value, at the same time it serves an important purpose in representing the resources of this State. Any donations or aid in making collections for the Museum will be highly appreciated.



MUSEUM.

INDUSTRIAL MUSEUM.

Among the facilities for instruction contained in the equipment of the University, may be mentioned :

A Dean steam pump with air chamber, water and steam cylinders, and valve chambers sectioned, so that a student may see the working parts.

A Cameron steam pump with the steam cylinder sectioned.

A Blake steam pump in full working order.

Two small horizontal, and one vertical steam engine made by the students in the shop.

A fire hydrant in working order.

A set of three successive portions of plate from a boiler showing effect of scale in producing overheating and bagging.

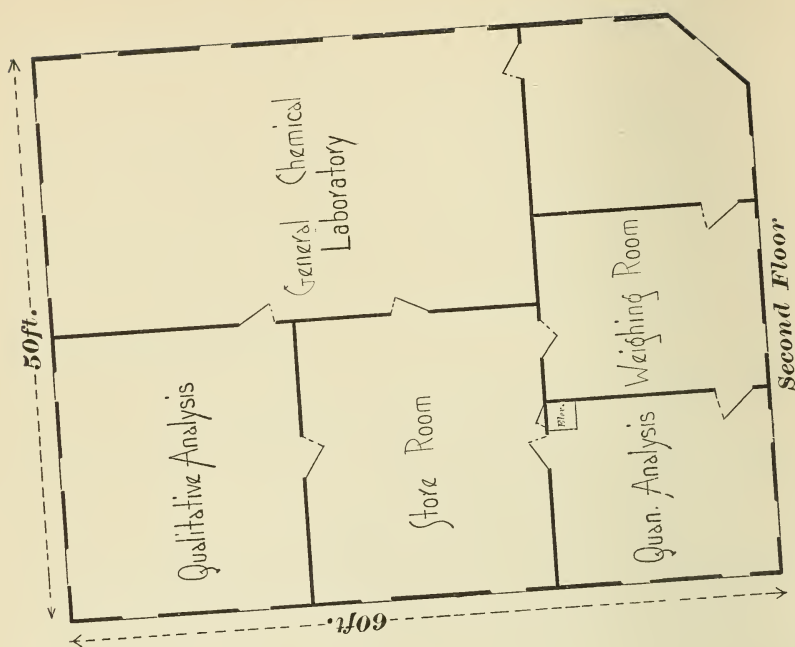
Samples of articles of manufacture form a large part of the collection, and are found to be of great service in acquainting students with the construction of such articles. Among these may be mentioned link belting, steampipe covering, grease cups, injectors in sections, water meters, insulated wire, lead cables, and lubricating oils. Models of a large number of machines of various kinds are also in the collection.

LABORATORIES.

In the laboratories of the University opportunities are afforded for practical instruction in chemistry, mineralogy, physics, botany, zoölogy, entomology, horticulture, and in civil, mechanical, and electrical engineering.

CHEMICAL LABORATORIES.

The laboratories for chemical work are four in number and are situated in the new laboratory building. The laboratory of general chemistry is furnished with desks capable of accommodating thirty-five students. Each desk has a cupboard and two drawers and is provided with gas and water. The qualitative laboratory has desks for sixteen students. Each desk is provided with suitable conveniences



PLAN OF NEW LABORATORY BUILDING.

for taking care of apparatus and is supplied with all the common reagents. The room is provided with a hood and all other equipments usually found in qualitative laboratories. The quantitative laboratory has suitable accommodations for eight students and has, beside the usual equipments, a Blake ore crusher and an assay furnace. Adjoining the quantitative laboratory is the weighing room, which contains two of Becker's best analytical balances, besides a number of less accurate instruments suitable for weighing large quantities of chemicals. The storeroom contains all the apparatus and chemicals. The room is in charge of an assistant, who gives out the supplies and keeps the books. This room contains the apparatus for preparing distilled water and has also some space for laboratory work.

MINERALOGICAL LABORATORY.

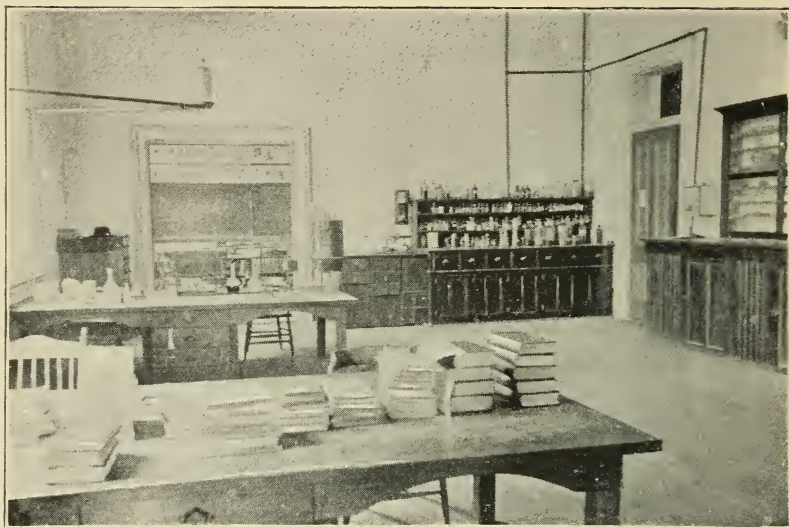
The work in mineralogy is done in the qualitative chemical laboratory. This arrangement is convenient, because the students of this subject also study qualitative analysis. A suitable supply of minerals is provided for study.

PHYSICAL LABORATORY.

The physical laboratory is a room 20x40 feet and is provided with large tables suitable for use in performing experiments in general physics and physical measurements. It has also two pillars built up from the ground and independent of the rest of the building for the accommodation of delicate instruments which would otherwise be disturbed by the vibrations of the floor. The storeroom of physical apparatus is supplied with instruments suitable for illustrating the principles of physics and there is also apparatus for the use of the students in the laboratory.

BIOLOGICAL LABORATORY.

The Biological Laboratory will accommodate twenty-six students. It is well equipped with microscopes, microtomes, micro-chemical reagents, and the special apparatus for bac-



BIOLOGICAL LABORATORY.

teriological work. A large aquarium furnishes means for the preservation of living animals for classes in zoölogy. All the apparatus necessary for the collection, mounting, and preservation of plants and insects is supplied in abundance. Each table is fitted with gas and distilled water, and each student is supplied with all the chemicals and apparatus needed in botanical and zoölogical dissections, and in the hardening, sectioning, staining, and mounting of material for histological work. A micro-photographic outfit and an incubator for embryological work complete its equipment.

GEOLOGICAL LABORATORY.

This Laboratory is provided with aneroid barometers, compasses, levels, pedometers, etc., for field work, and the necessary drawing apparatus for the construction of geological sections and for making geological maps. It also contains apparatus for grinding sections of rock for microscopic examination, and a petrographic microscope. The paleontological collections contain fossils characterizing the different geological ages, being especially rich in coal plants.

ENGINEERING LABORATORY.

The boilers generating steam for heating and power also furnish practice in determining the amount of steam made for each pound of coal burned. The amount of moisture in the steam is also tested by a calorimeter constructed in the shops. A feed pump and an injector are so arranged that comparative trials may be made for efficiency as boiler feeders. The engine used to run the shops and electric light plant is used to furnish practice in measurement of power from indicator cards and the pony brake. During the session of 1892 a series of tests were made to determine the water consumption of the engine per horse power per hour, in which the weight of steam used was determined by condensing the exhaust in a feed water heater at atmospheric pressure, and weighing the amount delivered. In the fall of 1893 a 30-horse power Reynolds-Corliss engine was installed in the main laboratory where it is used to drive the dynamos, testing machine, etc. It has proved to be of the greatest service in experimental work, and especially in valve setting.

A Riehle testing machine, run by a 10-horse power motor and capable of exerting a pull or pressure of 60,000 pounds, has been installed and used in experimental work upon the materials used in buildings, bridges, and machinery. A practical application has been made in determining the tensile strength of the steel plates used in the two 30-horse power boilers for the Branch Normal shops, and the 60-horse power boiler for the Arkansas Industrial University shops.

A 2,000-pound cement testing machine is used to determine the tensile strength of various cements, and their resistance to crushing. A saw for stone cutting has been designed and constructed for the purpose of cutting out specimens for tensile and crushing tests.

ELECTRICAL LABORATORY.

The Electrical Laboratory affords excellent facilities for experimental work with practical dynamo electric machines. In the laboratory will be found the leading types of machines for arc and incandescent lighting and for power; constant current and constant potential motors, and generators, representative of the different methods of power transmission; potentiometers for standardizing measuring instruments; Weston and other voltmeters and ammeters; electro-dynamometers; galvanometers of various types—sine, tangent, reflecting, Deprez, and D' Arsonval; magnetometers; standard resistance coils and bridges; transmission and absorption dynamometers.

The excellent equipment of apparatus enables the student to carry out a very wide range of experimental work, or to attain practical efficiency in operating and testing electrical machinery and instruments. An 80 ampere 110 volt dynamo, located in the shops, supplies light and power to the main building and laboratories.

SHOPS.

The Woodworking Shop is equipped with eighteen well appointed work benches with tools, seven turning lathes, one pattern maker's lathe, one double circular saw, one scroll saw, one band saw, one reversible shaping machine, one planing machine, one buzz planer, one steam glue heater, and one trimmer.

The Forging Shop is at present provided with seven forges of the most improved design, seven anvils, and seven sets of tools, consisting of hand-hammer, tongs, calipers, steel rule, steel square, hot and cold cutters, file, flatter, fullers, swedges, punches, heading tools, etc. The forges are supplied with power blast, and an exhaust fan draws off the smoke from the forges. This shop has also a portable

machinist's forge, a blacksmith's post drill, and a combined punch, shear and bar cutter.

The Moulding Room and Foundry contains a Colliau cupola which will melt from 200 pounds to one ton of iron at once, one brass furnace, one core oven, nine sand troughs and moulders' benches combined, twelve sets of moulder's tools, consisting of heart and square trowel, slickers, rammers, riddle, flask, swab, water pot, shovel, lifters, drawer, spikes, etc., six ladles from 100 to 5 pounds capacity, and an assortment of flasks, and other necessities for a complete foundry.

The Equipment of the Machine Shop consists of thirteen work benches with vises, sets of tools, and closets, three 14-inch engine lathes, one 19-inch engine lathe, one speed lathe, one planer 24x24x72 inches, one planer 10x10x24, one Universal milling machine, one double wheel emery grinding machine, one Universal cutter grinder, one drill press, one twist drill grinder, one grindstone, chucks, and other appliances for use on the lathes, planer, etc. This shop is well equipped with hammers, steel rules, steel squares, spring dividers, chisels, twist drills, taps, dies, tap wrenches, die stocks, reamers, pipe dies, files of all sizes and shapes, wrenches, arbors, lathe-dogs, squares, scales, calipers (inside and outside), machine and hand-cutting tools, a surface gauge, a surface plate, a micrometer caliper, a set of caliper gauges, a protractor, and many other tools. The machinery is driven by a 25-horse power Westinghouse engine.

Capacity of Shops.—Seventy-five students can be accommodated in the shops at one time, divided among the rooms as follows:

Woodworking Room.....	24
Metalworking Room.....	18
Forging Room.....	9
Foundry	20
Tool Room	1
Engine and Boiler Rooms.....	3

The Boiler Room contains two horizontal flue tubular boilers set in the brick work, aggregating 60-horse power. These are used for heating the main building and running the shops. A 60-horse power return tubular boiler set in a three-travel furnace and having a new design of iron stack has been recently added for power purposes and experimental work. The equipment includes exhaust and live steam heaters, duplex feed pumps, injectors, steam gauges, etc. Recently a pair of tanks holding about 200 gallons each have been added for convenience in accurately measuring water used in boiler tests and other experimental work.

DRAWING ROOM.

The equipment includes the usual tables and stools; and among the special apparatus and instruments may be mentioned the planimeter, pantograph, blue-print frame, traverse table, odontograph, slide rule, sets of railroad and machine curves, roof pitches, etc. A blue print room has recently been fitted up with complete facilities for the details of the blue print process. The room is also being provided with photographic apparatus which will be used to prepare lantern slides and prints illustrating various branches of engineering.

SURVEYING EQUIPMENT.

For the work in railroad, land and city surveying, the equipment furnishes chains, tapes, plumb bobs, a Locke level, aneroid barometer, sextant, Y level, transits with solar attachment, plane table, etc. Not the least valuable part of the equipment is a surrounding country which offers problems in most of the varieties of work which meet the practical surveyor. Each year, during the summer, a party of engineering students go into camp one week for practice in surveying and locating railway lines.

GENERAL INFORMATION.

REQUIRED, ELECTIVE, AND OPTIONAL STUDIES.

Each student must have not less than fifteen recitations a week or their equivalent in practical work, two hours' practical work being considered equivalent to one hour's recitation. When fewer than fifteen recitations per week, or their equivalent, are specified in any course, the student must elect studies to supply the deficiency. Students known to be in ill health or having physical defects which interfere with their studies, are sometimes allowed less than fifteen recitations. Electives taken from the studies of a class one year below have full value; but, if more than one year below, their value will be fixed by the Faculty. Students are not allowed to take additional studies to exceed the equivalent of twenty recitation hours in all (exclusive of military work), except by permission of the Faculty.

SPECIAL STUDENTS.

Persons who desire to pursue studies in one of the colleges of the University and do not desire to become candidates for a degree, will be admitted on the following conditions:

1. In general all persons under 21 years of age must pass the entrance examinations required of candidates for some degree, as described on pages 35 to 38.

2. Persons over 21 years of age must show that they have a good knowledge of English and are otherwise prepared to pursue profitably the studies they may desire to take up.

3. Should a student who enters under the preceding provision (2) subsequently become a candidate for graduation, he must then pass all the examinations for admission required of such a candidate.

CLASSIFICATION OF STUDENTS.

A student is a member of the highest class with which he has the equivalent of nine (9) recitations per week; provided that two hours of laboratory, shop, or farm work, drawing, or sight reading, required by his course of study, be counted as equivalent to one hour of recitation.

EXAMINATIONS.

1. Examinations shall be held at the end of each term. The standard is 75 per cent.

2. If a student's grade be less than 75 per cent, he may still be allowed to take up the subject which follows naturally, provided that he is not, in the opinion of the head of the department controlling said subject and of the instructors directly concerned, incompetent; but at the first opportunity that is offered to the student thus failing to review the work on which he has failed, he must pass successfully a special examination, or go over the work at once in class.

3. In case of repeated failure to pass, the student may still continue his advanced work if he has proven himself competent, and if he is not, in the opinion of the head of the department and the instructors directly concerned, likely to be overworked on taking up again the subject on which he has failed. If he has shown himself not incompetent to continue his advanced work, but only unable to do so for lack of time or on account of conflict of studies, he may at the discretion of the Faculty be allowed to drop some other study.

HONORS.

Of the students graduating in the baccalaureate courses of the University, those who stand highest in the three col-

leges at Fayetteville receive respectively the honors in Arts, honors in Science, and honors in Engineering, provided that the average grade in each case is not below 85 per cent. These honor students represent their respective colleges in speeches or essays on Commencement day.

The honor students in 1892 were: In Arts, Miss Julia Vaulx; in Science, Miss Lula Curry; in Engineering, Mr. I. G. Hedrick. In 1893: In Arts, Miss Hadgie Davies; in Science, Mr. Harvey Moore; in Engineering, Mr. Louis Ash. In 1894: In Arts, Mr. James D. Head; in Engineering, Mr. C. J. Eld.

LITERARY SOCIETIES.

The students' literary societies, three in number, meet weekly in their respective halls, and much interest is manifested.

UNIVERSITY MAGAZINE.

The University Magazine is published monthly during the school year by an editorial board elected by the students. The editors will be glad to send the Magazine free to any high school or academy in the State. A prize of \$25 is offered to the student of the University who writes the best original contribution during the year.

LECTURE COURSE.

The University Lecture Association has been able, through the liberal patronage of students and citizens, to offer the following list of attractive entertainments:

Sam Jones, March 9, "Character and Characters."

George Kennan, April 9, "Siberia."

Ex-Governor Bob Taylor, May 11, "A Paradise of Fools."

" " " " 12, "The Fiddle and the Bow."

Donald Downey, June 13, "Napoleon."

John Fox, Jr. July 7, "A Cumberland Vendetta."

Harvard Quartette, October 15, Musical and Elocutionary programme.

General John B. Gordon, October 24, "The Last Days of the Confederacy."

Henry W. Watterson, October 27, "Money and Morals."

RELIGIOUS EXERCISES.

Religious exercises are held regularly in the University Chapel at the beginning of each daily session. Students are required to attend.

The churches of Fayetteville cordially welcome the students to their Sunday schools and various meetings for prayer and religious instruction. The denominations represented in the city are Baptists, Presbyterian, Cumberland Presbyterian, Methodist, Protestant Episcopal, Christian, and Roman Catholic; and many of the students are actively engaged in the work of the different church societies and guilds. The Young Men's Christian Association has commodious quarters in the new dormitory, and great interest is shown. A Bible class, conducted by the president of the University and other professors, has met there regularly every Sunday afternoon, and has been largely attended.

ATHLETIC ASSOCIATION.

J. F. MAYES (Ark. Ind. Univ., '82), President.

J. T. STINSON (Iowa Agr. Coll., '90), Vice President.

W. P. MASON ('97), Treasurer and Secretary.

The purpose of this organization is to encourage the growing interest which the student body is manifesting in the development of the physical man.

The Association is composed of the A. I. U. Athletic Club, the A. I. U. Tennis Club, the A. I. U. Base Ball Club, and the A. I. U. Foot Ball Club; and it is further provided that if any other club, organized by the students of the University for the practice of any sport, game, or exercise not already represented by one of the members of the Association, shall make a written application for membership in the Association, and the said application shall be approved by the Governing Body of the Association, the petitioning club shall become a member in full standing of the Association with all the rights and privileges pertaining to such membership.

SALE OF ARDENT SPIRITS NEAR THE UNIVERSITY.

By an act of the General Assembly of the State of Arkansas, approved March 6, 1875, it is unlawful for any person to sell or give any vinous or ardent spirits within 3 miles of the Arkansas Industrial University, unless it be prescribed by a regular practicing physician for medicinal purposes.

EXPENSES.

Matriculation, charged all new students	\$ 5 00
Tuition per session, charged all except beneficiary students	10 00
Music fees (see music, page 83).	
Furniture for dormitory students, at cost usually about	15 00
Board in dormitory at cost, per month, from \$ 7 00* to	8 00
Board in private families, per month from \$ 12 00 to	15 00
Uniform suit, purchased by student, from 13 00 to	17 50
Washing, per month, about	1 00

The necessary expenses for a student who wishes to live cheaply are:

Board in dormitory, 9 months, about	\$ 72 00
Washing, 9 months, about	9 00
Furniture, first year only	15 00
Matriculation, first year only	5 00

Total expenses first year, apart from books and clothes, about

Total expenses afterward, apart from books and clothes, about

Students leaving the University frequently sell their furniture at a small reduction.

Rooms in the University dormitories are free, but occupants provide their furniture, fuel and lights. If there are not rooms enough for all, preference is given to Arkansas

students. An officer of the University lives in the building and superintends it, and the rooms are regularly inspected by the Faculty.

Students boarding elsewhere are under the supervision of the President of the University and are allowed to board only at places approved by him.

BOARD FOR YOUNG LADIES.

There is at present no special residence for girls. They are assisted in finding board in respectable families; but the Faculty is not so situated as to exercise constant supervision over them out of college hours. Parents at a distance who send a daughter to the University, should therefore be well satisfied as to her discretion, or else should place her under control of the family with whom she boards. The following ministers, pastors of the local churches named, kindly offer their services in assisting to secure suitable boarding places for young ladies: Rev. S. W. Davies, Presbyterian; Rev. S. Anderson, Methodist; Rev. J. T. Malloy, Cumberland Presbyterian; Rev. N. M. Ragland, Christian, and Rev. J. D. Cook, Baptist; also the Rev. J. J. Vaulx, rector of St. Paul's Church (Episcopal).

ARRIVAL OF STUDENTS.

Students, on arriving at Fayetteville, must report at once to the President of the University. No student will be allowed to recite in any class until properly enrolled, but will be held responsible for his conduct from the time of his arrival in Fayetteville.

CONDITIONS OF ADMISSION INTO THE UNIVERSITY.

All applicants for admission into the University must furnish evidence of good moral character. Recommendations from former instructors are preferred.

Dismissed or expelled students from other institutions of recognized standing will ordinarily be refused admission to the University.

PREPARATION FOR THE FRESHMAN CLASS.

1. *English.* Meiklejohn's English Grammar with analysis, or a full equivalent: a composition of 200 to 300 words, correct in spelling, punctuation, paragraphing, and grammar, upon a subject announced at the time of the examination. In 1895 the subject will be taken from Scott's *Ivanhoe*, or Shakespeare's *Merchant of Venice*, or Julius Cæsar.

In 1896 students will be examined in Raub's *Rhetoric* instead of Meiklejohn's Grammar, and the subject of composition will be taken from Scott's *Ivanhoe* (Ginn & Co.) or from Shakespeare's *Julius Cæsar*, or *Tempest* (Maynard, Merrill & Co.).

Students, preparing for the Freshman class, should use annotated editions of these books and should use constantly an unabridged dictionary. They should write as many as six compositions on subjects taken from these books, and should make a thorough review a short time before examination. More than half the failures are in composition and in the last half of Meiklejohn's Grammar.

2. *Arithmetic.* The examination will be taken from Wentworth's *Grammar School Arithmetic*, the whole of which is required. Teachers preparing candidates for entrance should, in teaching arithmetic, require them to analyze every example capable of analysis, or give a thorough course in mental arithmetic. Students who are not quick at analysis in arithmetic usually make poor progress in higher mathematics.

3. *Algebra.* To Quadratic Equations involving two unknown quantities, with special attention to factoring, the theory of exponents, and radicals. The examination will be

taken from Wentworth's Algebra. In 1896 Algebra through Quadratic Equations will be required.

4. *Plane Geometry*. The first four books of Wentworth's Geometry. In 1896 the whole of Plane Geometry will be required.

5. *History*. The examination will be taken from Eggleston's History of the United States, and from Barnes's General History.

6. *Geography*. Any complete manual, such as Harper's or Maury's, will give the preparation, if thoroughly mastered. Special attention is given to the geography of the United States and of Arkansas.

7. *Physiology*. Martin's Human Body, briefer course.

8. *Latin*. Jones's First Lessons in Latin complete, with all its references to Gildersleeve's Latin Grammar: Cæsar's Gallic War, four books, with questions on the implied grammar and on the subject matter, military equipment, etc. Kelsey's or Greenough's Cæsar is recommended. Latin is not required for admission except to the College of Liberal Arts or to the Normal School. In 1897 Tuell & Fowler's First Book in Latin will be substituted for Jones's Lessons.

Candidates for the higher classes, or for the Freshman Class after beginning of session, will be examined also in subjects passed over by the class.

Each student should come prepared for all the studies in some one class. If he is behind in one or more studies, he becomes irregular, and is necessarily subject to many inconveniences, though he may be admitted and classified according to his attainments.

ORDER OF EXAMINATIONS FOR ADMISSION.

Tuesday, March 5.—9 a. m., Registration of all students who are required to matriculate.

Wednesday, March 6.—9 to 12 m., Geometry and Physiology, Reading; 1 to 4 p. m., Algebra, Geography.

Thursday, March 7.—9 to 12 m., Arithmetic; 1 to 4 p. m., Latin, Reading.

Friday, March 8.—9 to 11 a. m., English Grammar and Analysis; 11 to 12 m., English Composition, Reading; 1 to 4 p. m., U. S. History, General History, Reading.

EXAMINATIONS AT PLACES OTHER THAN FAYETTEVILLE.

Students living more than a hundred miles from the University may, by making satisfactory arrangements, obtain special local examinations two weeks before the beginning of each session. The questions will be sent to any principal of a school or county examiner who will supervise the examination for the candidate, provided such officer makes his application in time. Such application must reach the University as early as February 1 for admission for first term. The questions must be submitted by the superintendent or principal to the candidate under the usual restrictions of a written examination, and the questions and answers must be returned by the same officer to the University with his indorsement that the examination has been properly made. Candidates should in all cases return only fair and honest answers; otherwise they will be seriously embarrassed in their future courses. The candidate must secure the consent of the principal or superintendent who is to hold the examination.

ADMISSION UPON ACCREDITED CERTIFICATES.

Accredited Schools—Any high school or academy whose course of instruction covers all the branches requisite for admission to the University, may be placed upon the accredited list of preparatory schools. Upon application from the principal of any high school or academy, an officer of the University will be sent as soon as possible to examine the course of study and methods of teaching. If his report is favorable the school will be placed upon the accredited list and its graduates will be admitted to the Freshman Class without examination. Students of accredited schools who may not be graduates, will be excused from examination on subjects re-

quired for admission into the University, upon certificates of proficiency in such studies from the principal. A school once placed upon the accredited list will remain there until its administration is changed, or until a notification that the work is unsatisfactory is received from the University. Upon a change of administration, an application to be continued upon the list of accredited schools should be forwarded to the University. Such request may be granted without a new examination if the authorities can assure themselves that no prejudicial changes in the courses of study or in the thoroughness of instruction will be made.

The University will do all in its power to bring about that close and cordial relation which should bind together the various branches of the common school system.

LIST OF ACCREDITED SCHOOLS.

Fort Smith High School, Principal, B. W. Torreyson.
Rogers Academy, Principal, J. W. Scroggs.
Little Rock High School, Principal, Lewis Rhoton.
Marianna Institute, Principal, T. A. Futrall.
Lonoke High School, Principal, J. J. Doyne.
Jonesboro State Normal School, Principal, C. L. Sampson.

APPOINTMENT OF BENEFICIARIES.

All appointments shall be completed, if possible, before the opening of the Spring term. The County Judges make the appointments and send them according to the directions below. If the appointee fails to appear at the University within twenty days after an appointment (except in case of sickness), he or she will be regarded as having declined the appointment, in which case it will be the duty of the President of the University to notify the person making the appointment of such failure, and he, in turn, should make another appointment as soon thereafter as possible. The President shall continue to notify appointing officers until their respective number of appointees make their appearance at the University.

All the beneficiary students should be present at the opening of the Spring term, and unnecessary delay will lead to the forfeiture of their appointments.

QUALIFICATIONS.

The attention of County Judges is called to the fact that *no beneficiary student will be admitted unless he has the following qualifications:*

Students are not admitted until they have become familiar with the leading principles of arithmetic. In reading, they must be able to understand and intelligently render specimens of the grade of the Fifth Reader, must have a good knowledge of elementary English grammar, geography, and the spelling of all words of the grade of the Fifth Reader. These qualifications are the test of admission at the beginning of the session; those applying later will be admitted only on the grade of the class. (See admission to Preparatory Department, p. 131.)

FORMS OF APPOINTMENT.

Students who have been appointed beneficiaries must bring evidence of appointment in the following forms of notice, to be sent by the Judge of the County Court, in accordance with the sixth section of an act approved March 6, 1875:

[Form 1—Appointment.]

No.....

[To be given to the Student.]

To whom it may concern:

I hereby appoint.....of County,
State of Arkansas, as a beneficiary to the Arkansas Industrial University.

Given under my hand this.....day of189...

.....

Send a notice like the following to the President of the University, and one to the Secretary of the Board of Trustees, at Fayetteville:

TWENTY-SECOND CATALOGUE

[Form 2—Notice to President of University.]

..... Arkansas, }

To the University.

I hereby notify you that I have this day appointed of
..... County, State of Arkansas, a beneficiary to the Arkan-
sas Industrial University.

Given under my hand this day of 189 ...

NUMBER OF BENEFICIARIES.

The number of beneficiaries is limited to one thousand, distributed to the counties of the State in proportion to the population of 1880, and in every case in which a county fails to supply its quota of beneficiaries, the Governor is authorized to appoint such beneficiaries to the full number authorized by law; *provided* that such appointment may be vacated on application from a county so failing to fill its quota, but may be resupplied from some other county whose quota has not been filled:

COUNTIES.	Beneficiaries.	COUNTIES.	Beneficiaries.
Arkansas	10	Lee	16
Ashley	13	Lincoln	12
Baxter	7	Little River	6
Benton	24	Logan	19
Boone	15	Lonoke	15
Bradley	8	Madison	15
Calhoun	7	Marion	10
Carroll	16	Miller	12
Chicot	12	Mississippi	9
Clay	13	Monroe	12
Clark	15	Montgomery	7
Cleburne	8	Nevada	17
Cleveland	10	Newton	6
Columbia	19	Ouachita	15
Conway	16	Perry	6
Craighead	8	Phillips	28
Crawford	11	Pike	3
Crittenden	11	Poinsett	7
Cross	6	Polk	3
Dallas	9	Pope	19
Desha	11	Prairie	10
Drew	15	Pulaski	45
Faulkner	17	Randolph	12
Franklin	18	Saline	11
Fulton	8	Scott	19
Garland	11	Searcy	7
Grant	8	Sebastian	28
Greene	9	Sevier	8
Hempstead	24	Sharp	12
Hot Spring	10	Stone	8
Howard	12	St. Francis	10
Independence	21	Union	16
Izard	14	Van Buren	11
Jackson	15	Washington	30
Jefferson	29	White	21
Johnson	15	Woodruff	12
Lafayette	6	Yell	18
Lawrence	10		

There is also one "Honorary Scholarship" to each county, to be elected for superior merit and proficiency, from the public schools of each county, according to section 2 of act of July 23, 1868.

ABSENCES.

Absences from the University during the session are not permitted except for reasons of importance. The parent has, at all times, the right to withdraw his son entirely and finally, without reason assigned; but without so withdrawing him, he cannot relieve him of the obligation to attend to his duties at the University. The incidental absences of students during the session are exceedingly disadvantageous, both to themselves and to the University. While, therefore, the Faculty permit them, in cases where propriety or urgent necessity seems to make them unavoidable, they hold it to be a duty to inquire into the reasons for which the permission is solicited.

No absences are permitted during the summer term for reasons that would not be valid at other times.

WITHDRAWAL OF STUDENTS.

Parents or guardians who wish to withdraw their children or wards from the University should write to the President stating their wishes. No honorable discharge will be given to a student under age, who is unable to produce the written application of his parent or guardian for his withdrawal, or if his number of demerits shall exceed the proportion of 200 allowed during the session. Nor will an honorable discharge be given to a student under censure of any kind, whether for neglect of duty or other cause, even though he may have the consent of his parent or guardian for his withdrawal from the University.

THE AGRICULTURAL EXPERIMENT STATION.

The national government established the Experiment Station as a department of the University in 1887, and maintains it to investigate agricultural problems for the aid of the farmers of the State.

The work of the Experiment Station is divided into the special lines of agriculture, horticulture, chemistry, and animal and plant diseases. Specialists are employed in each



EXPERIMENT STATION.

line, and experiments are made both in the field and laboratory in the improvement of soils, the rotation of crops, diseases of plants and domestic animals, in fertilizers, the value of stock foods, dairying, and other matters. The experiments and their results are published in bulletins which are sent free to farmers, stock raisers, and fruit growers of the State, and to others interested in agriculture.

Branch Stations are established at Newport and Camden in the northeast and southern divisions of the State, to make agricultural and horticultural experiments applicable to

the soil and climate of those localities. Soil and climate divide the State into three agricultural divisions. The growing season at the southern branch station is from two to two and one-half months longer than the season at Fayetteville in the northwestern part of the State. The season at Newport is intermediate between the other two and has alluvial soil, while the northwest section has clay soil, and the southern section light sandy soil. The chief line of work at the southern branch station is experiments in truck farming for northern markets, as the soil and climate of that section is specially adapted to truck farming. Evidence of the profit in truck farming is seen in the increasing numbers that annually engage in it.

The bulletins published by the Station this year are seven and comprise 200 pages. They are upon the following subjects:

BULLETIN NO. 25.—*Animal Pathology*.—Unsound Corn and Forage as a Cause of Disease in Live Stock; Colics in Horses and Mules; Some Further Experiments with Texas Cattle Fever.

BULLETIN NO. 26.—*Horticulture*.—Spraying Apple Trees; Spraying for Apple Scab; Spraying for Bitter Rot; Prevalence in the State of Apple Scab and Bitter Rot; Varieties of Apples in the State Reported as Surest Bearers; Some Apples Adapted to all Sections of the State; Arkansas Seedling Apples.

BULLETIN NO. 27.—*Agriculture*.—Experiments at the Northeast Station; Late Crops for Overflow Lands; Corn; Varieties for all Sections of the State, Corn Culture; Rotation of Crops; Cotton Culture; Egyptian Cotton—Two Varieties; Stack-Frame for Curing and Storing Cowpea Hay; Cowpea Hay; Oats for Hay; Forage Plants; List of Some Agricultural Books and Seed Houses.

BULLETIN NO. 28.—*Agriculture*.—Experiments at the Southern Branch Station; Rye for Green Winter Feeding; Fertilizer Experiments with Rye; Onions from Seed; Sal-sify or Oyster Plant; Fall Raised Irish Potatoes; Preparation of Soil for Cotton; Bermuda Grass; Pocket Gopher; Moles.

BULLETIN NO. 29.—*Agriculture*.—Wheat Experiments on Sandy Loam Soil at Newport Sub-Station; Some Grass Experiments on Clay Loam Soil at Fayetteville.

BULLETIN NO. 30.—*Stock Feeding*.—Feeding Standards; Some Arkansas Stock Foods; Compounding Food Rations.

BULLETIN NO. 31.—*Agriculture*.—Draining Lowlands and Terracing Uplands.

For the Station bulletins apply to the Director of the Station, Fayetteville, Ark. One application is sufficient to obtain all future bulletins, if desired.

MILITARY.

The head of this department is the officer of the United States Army detailed by the War Department for duty at the University.

All male students over 15 years of age are required to take the practical course in military science, which includes Infantry and Artillery drill, target practice, camping, guard duty and various other exercises, the course covering the entire period of the student's stay at the University. This instruction is in accordance with the act of Congress donating lands for the establishment of the University, which requires that "Military Science and Tactics" shall be taught in addition to the usual course of study.

The system of practical instruction closely follows that used in the United States Army. It contains a course of gymnastic exercises for the development and improvement of the arms, chest, legs, hands and feet, which is unexcelled.

Besides being the perfection of physical training, this instruction has many advantages mentally. The necessity of being alert, listening for each word of command, and acting promptly on it, quickens the wit and cultivates the habit of fixing the attention and concentrating the thoughts. In addition to all this it inculcates in the student a respect for authority and discipline which is equaled by no other system, and thus enables the University to send out annually young men who are fully competent to officer the various organizations of the State Guard.

The cadets are organized into a battalion composed of a staff, band, and three companies. In addition to these, there is a special company composed of the best drilled cadets of the three regular companies, organized voluntarily for extra drill, and it drills three hours per week in addition to the regular drills.

The officers and noncommissioned officers of the battalion are selected from those students who are most proficient in their drill and military studies and most exemplary in their deportment, the captains and lieutenants being taken usually from the Senior and Junior classes, and the sergeants and corporals from the Sophomore and Freshman classes. An office in the battalion of cadets is one of merit and distinction, and any unbecoming conduct will subject the appointee to reduction to the ranks.

A competitive drill is held each year; the winning company carries the flag for the ensuing year, and a gold medal is awarded the best drilled cadet. The battalion will be taken into camp annually for a period not exceeding ten days.

In connection with the battalion there is a band composed of cadets, not to exceed twenty. It receives the best theoretical and practical instruction attainable, practices four times per week, and performs at all military ceremonies.

The three students of the Senior class having the highest grade of merit in this department will be reported to the Secretary of War, and their names will be recorded in the Adjutant General's office and published in the Army Register for that year. The President of the United States, in appointing officers from civil life, gives preference to those whose names are so recorded. Cadet officers, on graduation, are brevetted in the State Guard with the rank held by them in the cadet battalion at the date of their graduation, and recommendations of the Commandant of Cadets as to special military qualifications of graduates of the military course are filed in the office of the Adjutant General of the State and considered in appointing commissioned officers of the State Guard.

A neat uniform of gray cloth, with brass buttons and black trimmings, is required to be worn by all cadets at drills. The uniform, complete, costs about \$16, and with ordinary care will last an entire year. Parents will save money by postponing the purchase of uniforms for their sons until they arrive in Fayetteville.

ORGANIZATION OF THE BATTALION FOR 1894.

Elias Chandler, 1st Lieut., 16th U. S. Infantry, Commanding the Battalion.

STAFF.

First Lieutenant and Adjutant.....	J. D. Nash.
First Lieutenant and Quartermaster.....	J. W. Hicks.
Sergeant Major	W. P. Mason.
Quartermaster Sergeant	J. H. Grimmett.

BAND.

First Lieutenant, Commanding the Band.....	W. H. Wood.
Band Leader.....	Frank Barr.
Drum Major.....	C. D. Head.

TWENTY-SECOND CATALOGUE

COMPANY "A" (color company).

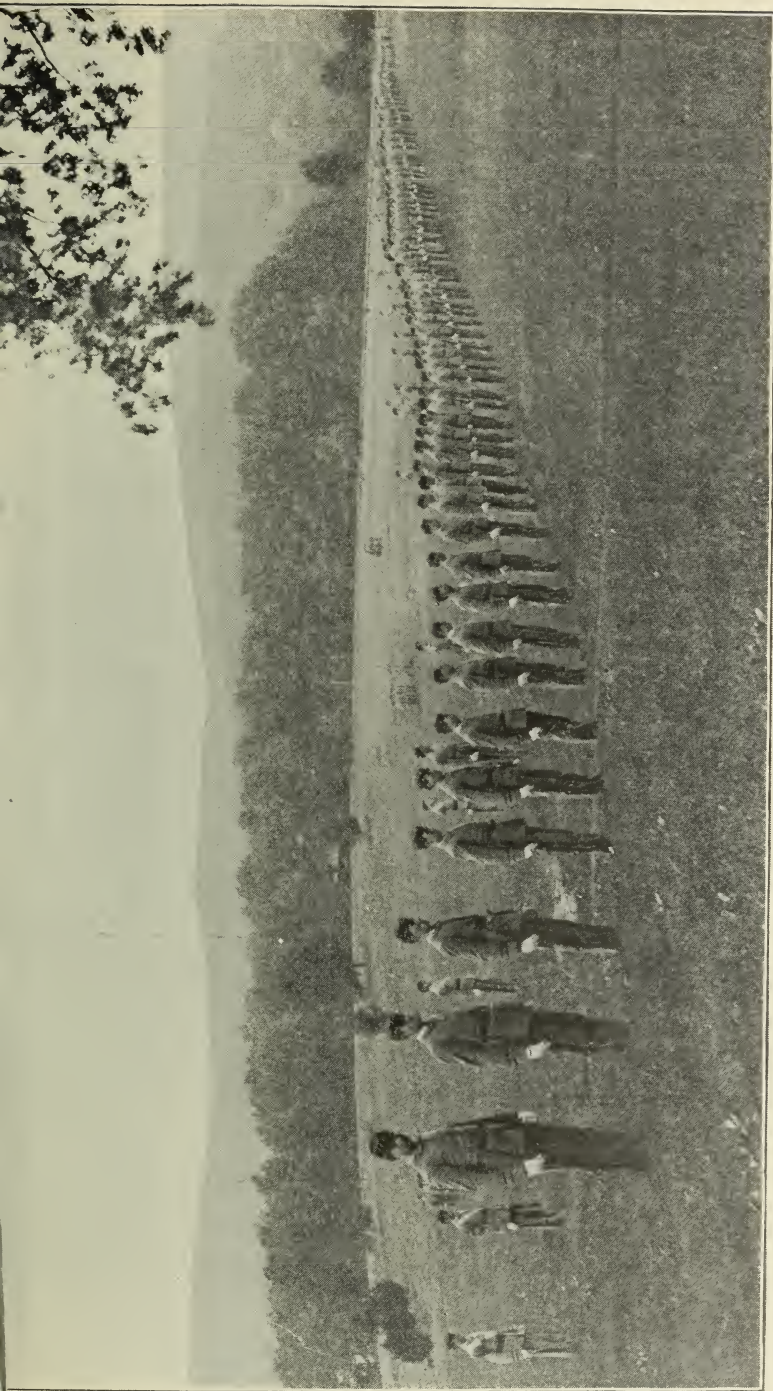
Captain.....	S. L. Morley.
First Lieutenant.....	J. E. Martineau.
Second Lieutenant.....	Cameron Duncan.
First Sergeant.....	J. L. Moore.
Sergeant.....	N. G. Turner.
Sergeant.....	J. R. Howard.
Sergeant.....	George Nicholls.
Sergeant.....	R. Shaha.
Corporal.....	W. H. Abernathy.
Corporal.....	Thomas Arnn.
Corporal.....	P. G. Traylor.
Corporal.....	A. S. Hagood.

COMPANY "B."

Captain.....	Chester Russell.
First Lieutenant.....	J. E. Beavers.
Second Lieutenant.....	E. K. Braly.
First Sergeant.....	A. J. McDaniel.
Sergeant.....	S. J. Taylor.
Sergeant (Color).....	J. F. Summers.
Sergeant.....	W. M. Fishback.
Sergeant.....	H. H. Rightor.
Corporal.....	S. B. Hill.
Corporal.....	H. Y. Fishback.
Corporal.....	Powell Clayton.
Corporal.....	T. B. Martin.

COMPANY "C."

Captain.....	A. M. Brixey.
First Lieutenant.....	E. V. Smith.
Second Lieutenant.....	J. H. Davis.
First Sergeant.....	E. L. Spencer.
Sergeant.....	W. E. Pruett.
Sergeant.....	W. T. Chamners.
Sergeant.....	G. H. Askew.
Sergeant.....	F. P. Earle.
Corporal.....	Harold Leach.
Corporal.....	Fred Jones.
Corporal.....	J. L. Warren.
Corporal.....	T. R. Wright.



ORGANIZATION OF THE UNIVERSITY.

The following are the colleges, schools, and courses:

I. AT FAYETTEVILLE.

1. *The School of Agriculture.*

Farmers' Course.

2. *The College of Mechanic Arts and Engineering.*

- (a) Course in Mechanical Engineering.
- (b) Course in Civil Engineering.
- (c) Course in Electrical Engineering.
- (d) Mechanic Arts Course.
- (e) Stationary Engineer's Course.
- (f) Trades Course.
- (g) Short Course in Electrical Engineering.

3. *The College of Science.*

- (a) Course in Chemistry.
- (b) Course in Botany.
- (c) Course in Zoölogy.
- (d) Course in Entomology.
- (e) Course in Geology.
- (f) Course in Pharmacy.

4. *The College of Liberal Arts.*

- (a) Course in Arts with Mathematics.
- (b) Course in Arts with Modern Languages.
- (c) Course in Arts with Ancient Languages.
- (d) Course in Arts with History.

5. *The Normal School.*

Normal Course.

6. *The Graduate Courses.*

7. *The Preparatory Department.*

- (a) Agricultural Course.
- (b) Engineering Course.
- (c) General Course.

8. *The Agricultural Experiment Station.*

II. AT LITTLE ROCK.

9. *The Medical School.*

- (a) Preliminary Course.
- (b) Course in Medicine.

10. *The Law School.*

III. AT PINE BLUFF.

11. *Branch Normal College.*

- (a) Normal Course.
- (b) Mechanical Course.

DEPARTMENTS OF INSTRUCTION.

The arrangement of elective courses enables students to concentrate their work upon special lines or subjects, and each student is expected to complete the undergraduate studies of at least one language or science. The following rules for elective studies will be observed :

1. No study can be elected, unless the professor in charge deems the student prepared to pursue it.

2. No elective study shall be changed before the end of the term.

No professor shall be required to teach an elective course, unless three or more students pursue it.

The figure on the left is the number of the course ; that on the right is the number of recitation hours per week.

AGRICULTURAL DEPARTMENT.

A. E. MENKE, Superintendent of Agriculture.

JEROME MCNEILL, Professor of Horticulture.

W. B. BENTLEY, Associate Professor of Chemistry.

R. R. DINWIDDIE, Veterinarian.

W. F. BATES, Instructor in Agriculture.

1. *Veterinary Anatomy* 3

Lectures and laboratory work (first term).

Dr. Dinwiddie.

Required of Sophomores in Farmers' Course.

2. *Veterinary Science* 3

Lectures and demonstrations (second and third terms).

Dr. Dinwiddie.

Required of Sophomores in Farmers' Course.

3. *Horticulture* 4

Class-room and practical work (first term).

Professor McNeill.

Required of Sophomores in Farmers' Course.

4. *Advanced Agriculture* 2
 This course can be taken by those students only who have passed the preparatory course, and have some knowledge of chemistry and botany.
 Professor Menke.
 Required of Sophomores in Farmers' Course.
5. *Stock Breeding* 3
 Class-room work on the principles of improvement and selection according to Warfield, Sanders and Powell.
 Required of Sophomores in Farmers' Course.
6. *Advanced Dairy Husbandry* 4
 Second and third terms. The management of large dairies, the principles of scientific feeding, the economic production of dairy products and other related topics.
 Mr. Bates.
 Required of Sophomores in Farmers' Course.

MECHANIC ARTS AND ENGINEERING.

C. V. KERR, Mechanical Engineering, Superintendent Mechanic Arts.

J. J. KNOCH, Civil Engineering.

W. N. GLADSON, Electrical Engineering.

MACK MARTIN, Machine Shop, Ass't Superintendent Mechanic Arts.

F. P. NICHOLAS, Wood Shop.

S. W. BASHAW, Forging and Founding.

C. S. DUGGANS, Engineer.

1. *Practical Draughting and Blue Printing* 2
 Lectures and practice 4 hours a week throughout the year. Working drawings, titles, tracing, preparing, and using blue print paper.
 Associate Professor Gladson, Acting Instructor.
 Required of Freshmen in the Engineering Courses.
2. *Machinist Work* 4
 Eight hours per week throughout the year. Chipping and filing, turning, planing, milling, drilling, grinding, metal fitting, and erection of machinery, millwrighting, care of engines and boilers. Text-book: Rose's Complete Practical Machinist; Lectures and Practice.
 Messrs. Martin and Duggans.
 Required of Freshmen in Engineering Courses.
3. *Descriptive Geometry* 2
 Recitations and practice two hours a week throughout the year. Text-book: Church's Descriptive Geometry.
 Associate Professor Gladson, Acting Instructor.
 Required of Sophomores in the Engineering Courses.
4. *Surveying* 2
 First and second terms. Care, use and adjustment of instruments; use

of chain, tape, compass, transit, solar attachment, level, sextant and plane table; land surveying, leveling, contouring, laws and instructions relating to surveys of the public domain. Text-book: Gillespie's Surveying.

Associate Professor Knoch.

Required of Sophomores in Engineering and in Science Course V.

5. *Field Practice* 2

Exercises in land, city, and topographical surveying.

Associate Professor Knoch.

Required of Sophomores in Engineering and in Science Course V.

6. *Mechanic Arts Courses* 5

During the fourth year of the Mechanic Arts Courses a student may choose for the subjects of his shop work any one of the following:

(a) Carpentry and cabinet making.....Mr. Nicholas.

(b) Pattern makingMr. Nicholas.

(c) FoundingMr. Bashaw.

(d) ForgingMr. Bashaw.

(e) Machine shops.....Mr. Martin.

(f) Engine, boiler, and dynamo running.....Professor Kerr,
Associate Professor Gladson, and Mr. Duggans.

7. *Highways* 2

Two hours per week, third term. The location, construction, and maintenance of common, macadam, and Telford roads; brick, stone, wood, and asphalt pavements for city streets. Text-book: Gillmore's Roads, Streets, and Pavements.

Associate Professor Knoch.

Required of Sophomores in Engineering Courses.

8. *Electricity and Magnetism* 3

Text-book: Mascart and Joubert's Electricity and Magnetism. Reference books: Cummings' Electricity and Ewing's Magnetism.

Associate Professor Gladson.

Required of first year students in short course in Electrical Engineering.

9. *Railroad Engineering* 2

Two hours per week first term, one hour second term, and four hours per week third term. Preliminary surveys and location; transition curves, yards, and turnouts; estimates of earthwork and material used in construction; the economics of railway location and management. Text-books: Searle's Field Engineering, first term; Crandall's Transition Curve and Earthwork Computations, second term; Wellington's Economic Theory of Railway Location, third term.

Associate Professor Knoch.

Required of Juniors in Civil Engineering.

10. *Elements of Mechanism* 3

Three hours per week, first term. Theory of motion and velocity ratios.

designs of gear wheels, cones, link motions, trains of mechanism. Text-book: Stahl and Woods' Elements of Mechanism.

Mr. Martin.

Required of Juniors in Mechanical and Electrical Engineering Courses.

11. *Electrical Laboratory* 2

Two afternoons a week throughout the year. An extended course in magnetic and electrical measurements; current, electro-motive force, and resistance; use and calibration of instruments, volt meters, and potentiometers; exploration of magnetic fields; dynamo work begun.

Associate Professor Gladson.

Required of Juniors in full course and of second year students in short course in Electrical Engineering.

12. *Field Practice* 2

Location of curves, turnouts, and wyes; measurement of embankments and cuts and computation of volumes.

Associate Professor Knoch.

Required of Juniors, Civil Engineering Course.

13. *Machine Design* 3

Three hours per week, second term. A study of the principles and conditions modifying the design of fastenings, journals, belt and rope gearing, chains, linkwork, pistons, crossheads, valves, lubricators, etc. Text-book: Mervin's Machine Design.

Mr. Martin.

Required of Juniors in Mechanical and Electrical Engineering Courses.

14. *Technical Drawing* 2

Lectures and practice two and three afternoons a week throughout the year. Working drawings of electrical apparatus; wiring plans designed by student.

Associate Professor Gladson.

Required four hours per week of the Juniors in the full course, and six hours per week of the second year students short course in Electrical Engineering.

15. *Railroad Survey* 12

One week, twelve hours per day. Actual field practice in reconnaissance, preliminary survey, and location.

Associate Professor Knoch.

Required of Juniors and Seniors in Civil Engineering Course and of Sophomores in all Engineering Courses.

16. *Electrical Engineering* 5

Telephone and telegraph; tests; methods of regulating and controlling dynamos and motors; station management; storage batteries; application of electricity to street car and mine work. Text-book: Slingo and Brooker's Electrical Engineering. Reference books: Thompson's Dynamo Electric Machinery; Crocker and Wheeler's Practical Management of Dynamos and Motors.

Associate Professor Gladson.

Required of second year students in short course in Electrical Engineering.

17. *Drawing* 2
 Pen and colored topography; profiles; topographical and railroad maps from actual surveys.
 Associate Professor Knoch.
 Required of Juniors in Civil Engineering.
18. *Valve Gears* 3
 Three hours per week, third term. An analytical and graphical treatment of the plain slide valve, shifting eccentrics, link motions, radial, double and drop cutoff valve gears. Text-book: Peabody's Valve Gears.
 Mr. Martin.
 Required of Juniors in Mechanical and Electrical Engineering Courses.
19. *Dynamo Electric Machinery*.
 Recitations first term four hours a week; second term two hours a week. Confined chiefly to direct current apparatus including types of motors, generators, and transformers; design, calculations, construction testing and operating. Text-book: Thompson's Dynamo Electric Machinery.
 Associate Professor Gladson.
 Required of Juniors in the Electrical Engineering Course.
20. *Masonry Construction* 3
 Three hours per week, third term. Use of lime and hydraulic cement mortars; stone and brick masonry foundations; foundations in soft materials on land and under water; cofferdams, cribs and caissons. Text-book: Baker's Masonry Construction.
 Associate Professor Knoch.
 Required of Juniors in Civil and Mechanical Engineering Courses.
21. *Mechanical Laboratory* 4
 Study of processes of blue printing and photography; gas analysis; calorific power of fuels; friction of belting; tests of lubricants; calibration of thermometers, gauges and indicators; planimeters and indicator cards.
 Professor Kerr.
 Required of Juniors in Mechanical Engineering Course.
22. *Steam Engineering* 3
 Three hours per week first two terms, two hours per week third term. Principles of construction and operation of the stationary engine; study of typical high speed and Corliss engines. Different kinds of steam pumps, pulsometers, injectors, pumping engines; construction and management of boilers; calorific power of fuels; chimney and mechanical draft; valves, fitting, and other boiler accessories. Text-book: Whitham's Constructive Steam Engineering.
 Professor Kerr.
 Required of Juniors in Engineering Courses.
23. *Mining Engineering* I
 Lectures one hour per week first term. Mine surveying, blasting, timbering and winning deposits; ventilation, hygiene, and mining law.
 Associate Professor Knoch.
 Required of Juniors in Civil Engineering Course.

24. *Technical Drawing* 2
Lectures and practice two hours a week, first and second terms; extension of course 14. Drawings of circuit and machine; electrical calculations and mechanical designs of electrical machinery; complete power plants designed by student.
Associate Professor Gladson.
Required of Seniors in Electrical Engineering Course.
25. *Practical Management of Dynamos and Motors* 2
Recitations. Third term, two hours a week. A practical treatise on installing, starting, testing, locating, and remedying faults in dynamos and motors. A practical laboratory guide. Text-book: Crocker and Wheeler's Practical Management of Dynamos and Motors.
Associate Professor Gladson.
Required of Juniors in Electrical Engineering Course.
26. *Sanitary Engineering* 3
Three hours per week, first term. Calculation and special details of construction of sewers; separate and combined systems of sewerage; purification of sewage; municipal and domestic sanitation. Text-book: Baumeister's Cleaning and Sewerage of Cities.
Associate Professor Knoch.
Required of Seniors in Civil Engineering Course.
27. *Statics and Dynamics* 2
Two hours per week second term, three hours third term. Forces; statics of a material point, of a rigid body, of a flexible cord; motion of a material point; moment of inertia; dynamics of a rigid body; work, energy, and power; friction. Text-book: Church's Mechanics of Engineering.
Mr. Martin.
Required of Juniors in Engineering Courses.
28. *Arches and Dams* 2
Two hours per week, first term. Theory of the equilibrium of arches and stability of masonry dams, by both analytical and graphic methods; drawings for complete designs. Text-book: Baker's Masonry Construction.
Associate Professor Knoch.
Required of Seniors in Civil Engineering Course.
29. *Strength of Materials* 4
Four hours per week, first term. Elementary stresses and strains, tension, compression, shearing, torsion, flexure of homogeneous prisms, continuous girders; flexure of long columns. Text-book: Church's Mechanics of Engineering.
Mr. Martin.
Required of Seniors in Engineering Courses.
30. *Electrical Laboratory* 2
Four hours a week throughout the year. This is an extension of course

II and must be preceded by it. A full experimental course in operating and testing, direct and alternate current machines, transmission, storage, and transformation, of electric energy. Special courses given, suited to the preparation and object of the student.

Associate Professor Gladson.

Required of Seniors in full course, and of second year students in short course in Electrical Engineering.

31. *Field Practice* 2

Two hours per week, first and second terms. Topographical survey, triangulation, and leveling.

Associate Professor Knoch.

Required of Seniors in Civil Engineering Course.

32. *Steam Engine Regulation* 2

Lectures. Two hours per week, first and second terms. Discussion of the form and purpose of fly wheels; design of fly wheels as modified by stresses due to high speed or sudden stoppage; weight of fly wheel, balance of reciprocating parts. Theory, construction, and adjustment of throttling, pendulum, and shaft governors; theory of coiled springs.

Professor Kerr.

Required of Seniors in Mechanical and Electrical Engineering Courses.

33. *Telephone and Telegraph* 2

Lectures and recitations. One term, two hours a week. Text-book: Preece's Telephone, Thom. and Jones's Telegraphic Connections.

Associate Professor Gladson.

Required of Seniors in the Electrical Engineering Course.

34. *Stereotomy and Drawing* 2

Two hours per week first term. Right and oblique arches; cloisters and domes; isometric projections and drawings for templet patterns; stone cutting. Text-book: Warren's Stone Cutting.

Associate Professor Knoch.

Required of Seniors in the Civil Engineering Course.

35. *Thermodynamics* 3

Three hours per week, first and second terms. Effect of heat on gases and vapors; study of general laws and their application to injectors; hot air, gas, and steam engines; Hirus' analysis; theory of compound engines; air compressors. Text-book: Peabody's Thermodynamics.

Professor Kerr.

Required of Seniors in Mechanical and Electrical Engineering Courses.

36. *Roofs and Bridges* 4

Four hours per week, second and third terms. Theory of computation of stresses by both analytical and graphic methods; full computations, designs, and bills of material for a roof truss and railroad bridge. Text-books: Merriman and Jacoby's Roofs and Bridges, Parts I. and II.

Associate Professor Knoch.

Required of Seniors in Civil Engineering Course.

37. *Hydraulics* 5
 Five hours per week, second term. Fluid pressure; pressure in tanks and reservoirs; flotation; gaseous fluids; flow of liquids through pipes and orifices; dynamics of gaseous fluids; impulse and resistance of fluids. Text-book: Church's Mechanics of Engineering.
 Mr. Martin.
 Required of Seniors in Engineering Courses.
38. *Mechanical Refrigeration* 3
 Three hours per week, third term. Study of fluids available; machinery and apparatus used in compression, and absorption systems; methods of freezing, cold storage; refrigeration from central stations. Lectures, recitations, and prescribed reading.
 Professor Kerr.
 Required of Seniors in Mechanical Engineering Course.
39. *Electricity and Magnetism* 2
 Recitations and practice. Twice a week, third term. Text-book: Gray's Absolute Measurements in Electricity and Magnetism.
 Associate Professor Gladson.
 Required of Seniors in the Electrical Engineering Course.
40. *Engineering Laboratory* 2
 Two hours per week, first and second terms. Tests of strength, and other properties of materials of construction; tensile and crushing tests of brick, stone and cement; flow of water through pipes, elbows, valves, and measurement by means of weirs.
 Professor Kerr and Associate Professor Knoch.
 Required of Seniors in Civil and Mechanical Engineering Courses, first and second terms; of Seniors in Electrical Engineering, second term.
41. *Drawing* 2
 This course accompanies the work in Elements of Mechanism, Machine Design, Valve Gears, Fly Wheels and Governors; and consists of problems in design to illustrate the principles taught.
 Professor Kerr.
 Required of Juniors in the third term and of Seniors in the first and second terms in Mechanical Engineering Course.
42. *Laws of Business* 3
 Three hours per week, third term. Study of law of sales, agency, partnership, common carriers, contracts, patents, insurance, real estate, etc. Text-book: Parson's Laws of Business.
 Professor Kerr.
 Required of Seniors in Engineering Courses.
43. *Theory of Alternate Currents* 3
 Recitations. Three hours a week, third term, two hours a week, first term. Text-book: Flemming's Alternate Current Transformer, Vol. I.
 Associate Professor Gladson.
 Required of Juniors, third term, and of Seniors, first term, in the Electrical Engineering Course.

44. *Drawing* 2
Two hours per week, second term. Structural details; working drawings for designs.
Associate Professor Knoch.
Required of Seniors in the Civil Engineering Course.
45. *Turbines* 2
Two hours per week, third term. Action of a jet of water on a moving vane; impulse and reaction wheels; modern turbine, form, efficiency, and methods of regulation. Text-book: Trowbridge's Turbine Wheels; Wood's Reaction Motors; Lectures.
Professor Kerr.
Required of Seniors in Mechanical Engineering Course.
46. *Electric Railways* 3
Recitations and lectures. Three times per week, third term. Text-book: Crosby and Bell's Electric Railway in Theory and Practice.
Associate Professor Gladson.
Required of Seniors in the Electrical Engineering Course.
47. *Pumping Machinery* 3
Three hours per week, third term. Design, construction, and operation of pumps and pumping machinery, with special reference to waterworks service. Text-book: Barr's Pumping Machinery. Professor Kerr.
Required of Seniors in the Civil and Mechanical Engineering Courses.
48. *Waterworks* 4
Four hours per week, second term. Study of systems of water supply; collection, purification, and distribution of water; location of waterworks with details of estimate of cost. Text-book: Fanning's Hydraulic and Water Supply Engineering.
Associate Professor Knoch.
Required of Seniors in the Civil Engineering Course.
49. *Power Plants* I
One hour per week, third term. Study of steam and water power plants as illustrated by the best practice; specifications. Lectures and prescribed reading.
Professor Kerr.
Required of Seniors in the Mechanical Engineering Course.
50. *Alternate Current Machinery* 3
Recitations and lectures. Three times a week, second term. Text-book: Flemming's Alternate Current Transformer, Vol. II.
Associate Professor Gladson.
Required of Seniors in the Electrical Engineering Course.
51. *Graphics* I
Lectures. One hour per week, first term. Graphical arithmetic; force diagrams; moment of inertia; stresses in trusses and mechanism; graphical dynamics.
Professor Kerr.
Required of Seniors in the Engineering Courses.

52. *Locomotive Mechanism* 3
 Three hours per week, second term. A study of locomotive boilers, cylinders, frames; valve motion and valve setting; various systems of compound locomotives; air brakes. Text-book: Reagan's Locomotive Mechanism.
 Professor Kerr.
 Required of Seniors in Mechanical Engineering Course.
53. *Specifications* 1
 Recitations and lectures. One hour a week, third term. Text-books: Merrald's Electric Light Specifications; Patent Specifications; Rights and Liabilities of Electric Companies.
 Associate Professor Gladson.
 Required of second year students, short course, and of Seniors, full course, in Electrical Engineering.
54. *Experimental Engineering* 2
 Two hours per week, first and second terms. Least squares and experimental data; testing machines; measurement of power; friction of lubricants; heating power of fuels; calorimeters; methods of testing steam and gas engines, locomotives, pumping machinery; reports. Text-book: Carpenter's Experimental Engineering. Recitations and practice.
 Professor Kerr.
 Required of Seniors in the Mechanical Engineering Course.
55. *Gas Engines* 2
 Two hours per week, third term. History and present types of gas and oil engines; explosion in a closed vessel; the gas engine cycle; efficiency and adaptation of the gas engine. Text-book: Robinson's Gas and Petroleum Engines.
 Professor Kerr.
 Required of Seniors in Mechanical Engineering Course.
56. *Contracts and Specifications* 2
 Two hours per week, third term. Study of recent structures, bridges, foundations, sewers, etc.; specifications. Text-book: Haupt's Specifications and Contracts.
 Associate Professor Knoch.
 Required of Seniors in the Civil Engineering Course.
57. *Thesis* 5
 Original work planned and executed by the students; subject chosen must be covered by previous work and approved by the instructor. Time allowed, five hours per week, third term.
 Professors Kerr, Knoch, and Gladson.
 Required of Seniors in the Engineering Courses.

GRADUATE INSTRUCTION IN CIVIL ENGINEERING.

(1) *Framed Structures.*

This will include the computation of stresses, design, and complete working drawings for roofs, bridges, plate girders, trestles (in wood and iron), and a critical study of some of the modern tall buildings.

(2) *Railroad Engineering.*

Including railway management, buildings, and yards.

(3) *Building Material.*

This course will be principally laboratory work on cements, building stones, wood, iron, and steel.

Directed by Associate Professor Knoch.

GRADUATE INSTRUCTION IN MECHANICAL ENGINEERING.

(1) *Engineering Design.*

This will lead to complete drawings and blue prints of steam engines, boilers, pumps, turbines, transmission machinery, or power plants, etc., based on original design and calculation. This will be accompanied by research in related literature.

(2) *Experimental Engineering.*

This will cover actual tests for efficiency of steam engines, boilers, turbines, pumping machinery, etc., combined with a study of important tests of experts.

(3) *Mechanical Refrigeration.*

This will consist of an extended study of the theory and practice of the compression and absorption systems, with visits of inspection.

Directed by Professor Kerr.

GRADUATE INSTRUCTION IN ELECTRICAL ENGINEERING.

These courses will be in the nature of theoretical and practical investigations. The laboratory equipment, which is continually being added to, will furnish means for an extended investigation in the following lines:

- (1) Absolute measurements in electricity and magnetism.
- (2) Photometric standards and measurements.
- (3) Design, construction, and management of electric plants.
- (4) Management, tests, and efficiencies of direct or alternate current generators or motors.

A complete report of work done will constitute a part of the requirements.

Directed by Associate Professor Gladson.

CHEMISTRY AND PHYSICS.

A. E. MENKE, Professor.

W. B. BENTLEY, Associate Professor.

CHEMISTRY.

1. *Agricultural Chemistry* 3

Recitations twice a week, laboratory work one afternoon throughout the year. This course will be devoted to instruction in the chemistry of soils, fertilizers, and agricultural products.

Professor Menke.

Required of Freshmen in Farmers' Course.

2. *General Inorganic Chemistry* 3

Lectures twice a week, laboratory work one afternoon throughout the year. Reference books: Roscoe and Schorlemmer's *Treatise on Chemistry*, and other books.

Associate Professor Bentley.

Required of Sophomores in Science Courses II., III., IV., and V.

3. *General Chemistry* 5

Lectures and recitations three times, laboratory work two afternoons per week throughout the year. The first and second terms are devoted to the study of inorganic chemistry, third term organic chemistry. Text-books: Richter, Remsen.

Professor Menke.

Required of Sophomores in the Engineering, Pharmacy, and Farmers' Courses, and of Freshmen in Science, Course I.

4. *Chemical Philosophy* 3

Three times per week, third term. This course supplements the instruction in theoretical chemistry given in courses 2 and 3. Text-book: Tilden's *Introduction to Chemical Philosophy*. Reference books: Ostwald's *General Chemistry* and Meyer's *Theoretical Chemistry*.

Associate Professor Bentley.

Required of Sophomores in Science, Course I.

5. *Qualitative Analysis*.

(a) Recitations three times per week, first term. (b) Laboratory work two afternoons per week for engineering students, three afternoons for scientific students throughout the year. The recitations are occupied with the discussion of problems depending on the principles of qualitative analysis. The object of these discussions is to enable the student to understand the methods of separation as well as to be able to follow them practically. In the laboratory a large number of substances both simple and complex are analyzed. Laboratory Manual: Hill's *Lecture Notes on Qualitative Analysis*.

Associate Professor Bentley.

Required of Sophomores in Science, Course I., and second year students in Pharmacy Course.

6. *Mineralogy* 3
 Laboratory work five hours per week, second term. A series of minerals are identified chiefly by blowpipe tests. Foye's Handbook.
 Associate Professor Bentley.
 Course 6 is required of Sophomores, Scientific Course I.
7. *Organic Chemistry* 3
 Lectures three times per week throughout the year with laboratory work, if desired. Reference books: Richter's Organic Chemistry and other works on organic chemistry.
 Associate Professor Bentley.
 Required of Juniors, Scientific Course I.
8. *Quantitative Analysis* 4
 Laboratory work four afternoons per week. Practice in gravimetric and volumetric analysis. Manual: Thorp.
 Associate Professor Bentley.
 Required of Juniors, Scientific Course I.
9. *Quantitative Analysis* 4
 Second Course. Analysis of agricultural and food products.
 Professor Menke.
 Required of Seniors, Scientific Course I.
10. *Technical Chemistry* 3
 Three times per week throughout the year. A study of industries having chemical principles and processes for a basis.
 Professor Menke.
 Required of Seniors in Scientific Course I.
11. *Physical Chemistry* 3
 Chiefly laboratory work. Determination of molecular weights according to the various methods in common use. Thermo-chemical work, measurement of electric conductivity of electrolytes. Practice with polariscope refractometer, etc.
 Associate Professor Bentley.
 Required of Seniors in Scientific Course I.
12. *Metallurgy* 3
 Three times a week throughout the year. Smelting and refining of ores and ore dressing products. Reduction to metals.
 Professor Menke.
 Required of Seniors, Scientific Course I., and during the first term, of Seniors in Engineering Courses.
13. *Assaying* 4
 Class meets at convenience of the instructor. Preparing and testing reagents, making cupels, etc., and assaying samples of furnace and mill products.
 Professor Menke.
 Required of Seniors in Scientific Course I.

14. *Graduate Work.*

The professors will direct the work of such competent students as may desire to pursue a course of advanced study and research.

PHYSICS.

1. *General Physics*..... 5

Recitations four times and laboratory work one afternoon per week throughout the year. Recitations and experimental lectures on mechanics, sound, heat, light, magnetism and electricity. Text-book: Ganot.

Professor Menke.

Required of Freshmen in the Engineering and Scientific Courses and of Sophomores in Arts, Courses II., III., IV.

2. *Physical Measurements.*

Laboratory work four hours for scientific, two hours per week for engineering students. Course 2 includes measurements in mechanics, sound, heat, light, magnetism and electricity. Manual: Sabine's Laboratory Course in Physics.

Associate Professor Bentley.

Required of Sophomores in Scientific Course I. and in Engineering Courses.

MATHEMATICS, ASTRONOMY, AND LOGIC.

O. C. GRAY, Professor.

G. W. DROKE, Associate Professor.

The following are the courses for 1895:

1. *Algebra*..... 2

Beginning with simultaneous quadratic equations. Text-book: Wentworth.

Professor Gray and Associate Professor Droke.

Required of Freshmen in Engineering and Arts, in Science, Course I., and in Normal Course.

2. *Plane and Solid Geometry*..... 3

First and second terms. Beginning with Book IV.

Professor Gray and Associate Professor Droke.

Required of all Freshmen.

3. *Plane Trigonometry*..... 3

Third term.

Professor Gray and Associate Professor Droke.

Required of all Freshmen.

4. *Spherical Trigonometry*..... 2

First term.

Professor Gray.

Required of Sophomore Engineering students and of Sophomores in Arts, Course I.

5. *Analytic Geometry*..... 3

Lectures and demonstrations, first and second terms. This course has

two additional hours in the second term. Text-book: Nichols's Analytic Geometry.

Professor Gray.

Required of Sophomore Engineering students and of Sophomores in Arts, Course I.

6. *Differential Calculus*..... 5

Third term. Text-book: Osborne.

Professor Gray.

Required of Sophomore Engineering students and of Sophomores in Arts, Course I.

7. *Differential and Integral Calculus*..... 3

First and second terms, with lectures and demonstrations. Text-book: Osborne.

Associate Professor Droke.

Required of Junior Engineering students and of Juniors in Arts, Course I.

8. *Descriptive Astronomy*..... 3

Third term. Text-book: Newcombe and Holden.

Professor Gray.

Required of Junior or Senior Engineering students and of Juniors in Arts, Course I.

9. *Logic*..... 2

First and second terms. Text-book: Jevon-Hill.

Professor Gray.

Required of Juniors in Arts.

10. *Mathematical Astronomy*..... 3

First term.

Professor Gray.

Elective for Seniors.

11. *Synthetic Geometry*..... 2

One or two terms. Text-book: Dupuis.

Associate Professor Droke.

Elective for Juniors or Seniors.

12. *Higher Algebra*..... 3

One or two terms. Text-book: Hall and Knight.

Associate Professor Droke.

Elective for Sophomores and Juniors.

13. *Solid Analytic Geometry*..... 2

One or two terms. Text-book: Smith.

Professor Gray.

Elective for Juniors and Seniors.

14. *Determinants and Theory of Equations*..... 2

One or two terms. With lectures and demonstrations.

Associate Professor Droke.

Elective for Seniors and Graduates.

15. *Differential Equations*..... 2

One or two terms. Text-book: Johnson.

Associate Professor Droke.

Elective for Seniors and Graduates.

BIOLOGY AND GEOLOGY.

PROFESSOR MCNEILL, ASSOCIATE PROFESSOR MEEK.

BIOLOGY.

1. *General Biology* 3

Recitations twice, and laboratory two hours per week. A brief study of typical plants and animals with reference to structure, development, and relationship. This course is introductory to both Botany and Zoölogy. Text-books: Parker's Biology; laboratory manual, Boyer's Practical Biology.

Associate Professor Meek.

Required of Freshmen in Science, Courses II., III., IV., and V., and of Sophomores in Science, Course I.; alternative with Botany 1 or Zoölogy 1 for Freshmen in Arts Courses and in Normal Course.

BOTANY.

1. *Systematic Botany* 3

One lecture a week for the first term, with four hours laboratory work. Six hours a week laboratory work for the second and third terms. Designed to give students a general knowledge of the classification of plants and a more particular acquaintance with the seed plants and ferns of Northwest Arkansas. Text-book: Gray's Manual of Botany.

Professor McNeill.

Required of Sophomores in Science, Courses II., III., IV., V.; alternative with Biology or Zoölogy 1 for Freshmen in Arts Courses and in Normal Course.

2. *General Morphology of Plants* 3

Recitations twice, laboratory work two hours per week, first and second terms. This course must be preceded by course 1. It should precede course 4, but does not do so necessarily. Text-book: Goebel's Outlines of Classification.

Professor McNeill.

Course 2 is offered only in even years, and is required of Juniors in Science, Course II.; alternative with course 4 for Juniors in Science, Courses II. and III.

3. *Bacteriology* 3

One recitation and four hours a week laboratory work for the third term. Text-book: Hueppe's Methods of Bacteriological Investigations.

Professor McNeill.

Required of Juniors or Seniors in Science, Course II., and alternative with course 4 for Juniors in Science, Courses III. or IV.

4. *Vegetable Histology* 3

Laboratory work six hours per week. A systematic study of the tissues of vascular cryptogams and phanerogams. Students are taught the use of stains and reagents and methods of hardening, mounting, and sectioning vegetable tissues. Laboratory guide: Strasburger's Practical Botany.

Professor McNeill.

Course 4 is offered only in odd years, and is alternative with courses 2 and 3. Required of Juniors and Seniors in Science, Course II.; alternative with 2 and 3 for Juniors in Science, Courses III. and IV.

5. *Advanced Work in Histology or Systematic Botany* 3
 Professor McNeill.
 Required of Seniors in Science, Course II.

ENTOMOLOGY.

1. *General Entomology*..... 3
 Recitations twice, laboratory work two hours per week. Designed to give a general knowledge of the structure, habits, and classification of insects and a more particular knowledge of the orders Orthoptera and Lepidoptera. Text-book: Packard's Elements of Entomology. Laboratory guide: French's Butterflies of the Eastern United States, and other manuals.
 Professor McNeill.
 Required of Juniors in Science, Course II.
2. *General Entomology* 5
 This course is the same as 1, with four hours per week additional laboratory work.
 Professor McNeill.
 Required of Juniors in Science, Course III.
3. *Economic Entomology* 3
 This course is a continuation of 2, and must follow it. The systematic work for each student will be restricted to one order or family of which he will be expected to make a special study. Special attention will be given to breeding and rearing of insects and to working out the life histories of those species that are little known.
 Professor McNeill.
 Required of Seniors in Science, Course III.

ZOOLOGY.

1. *General Zoology* 3
 One recitation and four hours laboratory work per week. A general course in animal morphology and systematic zoölogy. The systematic work will be restricted to vertebrates. Text-book: Packard's Zoölogy. Laboratory guide: Jordan's Manual of Vertebrates.
 Associate Professor Meek.
 Required of Sophomores in Science, Courses II., III., IV. and V.; alternative with Biology 1 and Botany 1 in Arts and Normal Courses.
2. *Vertebrate Anatomy* 3
 Recitations twice per week and dissection of typical vertebrates. Text-book: Wiedersheim's Anatomy of Vertebrates.
 Associate Professor Meek.
 Required of Juniors in Science, Course IV.
3. *Neurology*.
 Lectures twice a week, third term.
 Associate Professor Meek.
 Required of Juniors whose course requires Psychology.

4. *Animal Histology* 6
Two recitations and eight hours in the laboratory per week, first term.
Open only to students who have taken course 2. Text-book: Schafer's
Essentials of Histology.

Professor McNeill.

Required of Seniors in Science, Course IV.

5. *Embryology* 6
Recitations three times, and laboratory work six hours a week, second
and third terms. Open only to students who have taken course 4.
Text-book: Foster and Balfour's Elements of Embryology.

Professor McNeill.

Required of Seniors in Science, Course IV.

6. *Ichthyology*.
Lectures once, and laboratory work four hours a week. Advanced work
in the study of fishes.

Associate Professor Meek.

Elective.

GEOLOGY.

1. *General Geology* 3
Recitations and lectures, three times a week. Structural, dynamical, and
historical Geology, with occasional field excursions. Text-book: Le
Conte's Elements or Dana's Manual.

Associate Professor Meek.

Required of Juniors in Science Courses; alternative with course 3 for Juniors in Science,
Course I.

2. *Practical Geology* 2
Field work first and second terms, laboratory practice third term four
hours per week. Field work will consist in making geological sections
and geological maps, using United States Geological Survey methods.
Laboratory practice will consist of a study of building and ornamental
rocks. Text-book: Merrill's Building and Ornamental Rocks of the
United States. This course will accompany or follow courses 1 or 3.

Associate Professor Meek.

Required of Juniors in Science, Course V.

3. *Economic Geology* 3
Recitations and lectures, three times a week: Ore deposits and valuable
rock materials. Field work and laboratory practice two hours per week.
This course is designed for engineering students. Text-book: Tarr.

Associate Professor Meek.

Required of Juniors in Civil Engineering and of Seniors in Science, Course V.; alterna-
tive with course 1 for Juniors in Science, Course I.

4. *Petrography* 3
Lectures and recitations once a week, laboratory practice four hours a
week, first and third terms. Text-book: Iddings.

Associate Professor Meek.

Required of Seniors in Science, Course V., or alternative with course 5.

5. *Paleontology* 3
Recitations and lectures once a week, laboratory four hours per week.
Fossils studied will be selected each year. In 1895 the class will make
a special study of neighboring coal flora.
Associate Professor Meek.
Required of Seniors in Science, Course V.; alternative with course 4.

PSYCHOLOGY AND ETHICS.

PRESIDENT BUCHANAN.

The course offered in these subjects consists of recitations, lectures, and full and free discussions by the members of the class. In connection with a careful examination of the views and opinions of leading thinkers, students are encouraged to study their own mental phenomena and to subject to the test of individual consciousness the various theories which come under investigation. Due attention is given to the recognized contributions of modern Physiology to Psychology. As introductory to this part of the subject, the professor of Biology gives a course of lectures with accompanying laboratory work in Neurology, which all students whose course includes Psychology, are required to attend during the third term of the Junior year.

1. *Psychology* 3
Three times a week, first and second terms.
Required of Seniors in Arts, Courses I., III., IV. and of Seniors in Science, Courses II., III., IV. and V.
2. *Ethics* 2
Twice a week, third term.
Required of Seniors who take Psychology.
3. *Political Economy*..... 2
Lectures and recitations twice a week. Attention is specially directed to the leading questions of to-day, such as public finance, tariff, railway and other corporate industries, etc.
Required of Juniors in Arts.

ENGLISH AND MODERN LANGUAGES.

R. H. WILLIS, Professor.

IDA PACE, Associate Professor.

PROFESSOR LEVERETT, Acting Assistant.

PROFESSOR FUTRALL, Acting Assistant.

For the lower classes in each language the aim is to acquire a practical and accurate use of the language as it exists to-day; and the only proper basis for this is an exact knowledge of grammatical forms and of the elementary principles of syntax. In the higher classes the languages are studied historically and philologically with a view to general culture and to the best mental discipline.

Every student has the opportunity to become thoroughly acquainted with the English language, to learn to speak and write it correctly and forcibly. A course of parallel reading is prescribed for each class, and an extensive course of general reading is published in the Library for the benefit of all. It is carefully selected and graded, and affords much variety in style and matter.

In the foreign languages the first and constant aim is a correct pronunciation and excellence in translation and composition; but the syntactical and etymological relations existing between these languages and the English are emphasized, and they are thus constantly contributing to the student's knowledge of English and to his power of expression. Besides the above instruction there are, in each foreign language, additional recitations devoted wholly to conversation and sight reading.

The following are the courses for 1895:

I. *Rhetoric and English Literature* 3

Raub's Rhetoric; Meiklejohn's History of English Literature; nine essays (chiefly narrative and descriptive) criticised and corrected by the instructor and copied by the student; thorough drill in English metres. For reference: Bain, Blair, Clark, Hart, Hill, Genung, Kames.

Professor —————.

[In 1896 Meiklejohn's English Language (complete) with essays, as above.]

Required of all Freshmen.

2. *English and American Prose Writers*..... 2
 Study of representative authors with rhetorical analysis and criticism; three essays. *First Term*: Bacon, Addison, Johnson. *Second Term*: Burke, De Quincey, Carlyle. *Third Term*: Thackeray, Hawthorne. Text-book: Garnett's English Prose. For reference: Minto, Genung, Hunt, Arnold, Morley, Shaw, Taine, Welch, and others.
 Miss Pace.
 [In 1896 the authors will be: *First Term*: Milton, Steele, Swift. *Second Term*: Goldsmith, Scott, Macaulay. *Third Term*: Ruskin, Irving.]
 Required of Sophomores in Arts and Engineering and of Sophomores in Science, Courses II., III., IV., and V. This course may be taken for two consecutive years.
3. *English and American Poets* 2
 General survey of period from Restoration to Tennyson, with critical study of representative poets; three essays. *First Term*: Dryden, Pope, Gray. *Second Term*: Burns, Coleridge, Scott, Byron. *Third Term*: Poe, Bryant, Longfellow, Tennyson. Hale's Longer English Poems and other critical editions. For reference and topical study: Brooke, Hallam, Lowell, Shaw, Taine, Ward, and others.
 Miss Pace.
 [In 1896 different selections or different poets of this period will be studied.]
 Required of Juniors in Arts, Course II. This course may be taken for two consecutive years.
4. *Middle English and Early Modern English*..... 2
 Literary History of period from Chaucer to Milton; reading of representative authors with historical, philological, and literary criticism; three essays. Morris's Chaucer, Percival's Spencer, Sprague's Milton, Rolfe's plays of Shakespeare, and other annotated editions. For reference: Bucknell, Coleridge, Dowden, Gervinus, Hazlitt, Hudson, Ulrici, and others.
 [In 1896 there will be different readings from the same authors.]
 Professor ———.
 Required of Juniors in Arts. This course may be taken for two consecutive years.
5. *Anglo-Saxon and Middle English* 3
 Readings from the Anglo-Saxon Gospels and Chronicles; selections from Alfred, Aelfric, Caedmon, and later writers. Bright's Anglo-Saxon Grammar and Reader (120 pages); Morris's Specimens of Early English, Part I.; Ten Brink's Old English Literature (selections). For reference: Cook's First Book in Old English, Cook's Sievers' Grammar of Old English, March's Anglo-Saxon Grammar (syntax), Skeat's Etymological Dictionary.
 Professor Willis.
 Required of Seniors in Arts, Course II. The readings will be mostly changed for 1896.
6. *English Philology* I
 Lounsbury's English Language (revised edition) with parallel readings

and lectures. For reference and topical study: Skeat's Principles of English Etymology, Sweet's Grammar (historical part), Earle, Morris, Peile, and others.

Professor Willis.

Required of Seniors in Arts.

7. *Advanced Anglo-Saxon and English Philology* 2
 Ten Brink's Old English Literature (selections); Cook's Sievers' Grammar, and one of the following courses of reading with critical and philological study: (a) Alfred's Orosius (Sweet); Judith (Cook); Elene (Kent); or (b) Exodus and Daniel (Hunt); Beowulf (Harrison and Sharpe). For reference: Bosworth's Anglo-Saxon Dictionary, Skeat's Etymological Dictionary, Mayhew's Synopsis of Old English Phonology, Sweet's Handbook of Phonetics. Kluge's Etymological Dictionary, Balg's Glossary of Gothic.

Professor Willis.

For graduate students who have completed 4, 5 and 6.

8. *Gothic and Germanic Philology* 3
 For students who wish to study English or German historically. Special attention is given to the phonological relations of Gothic to earlier Indo-European languages and to later Germanic languages. Balg's Translation of Braune's Gotische Grammatik; Ulfilas (Heyne or Balg); Douse's Introduction to the Study of Gothic. For reference: Wright's Primer of Gothic; Balg's Glossary; Kluge's Etymological Dictionary; Mayhew's Synopsis; Sweet's Handbook; Paul and Braune's Grundriss; Brugmann's Comparative Grammar.

Professor Willis.

For graduate students who have completed 4, 5 and 6.

9. *English Literature of the Nineteenth Century* 3
 Critical study of the life and works of Scott, Byron, Macaulay, Thackeray, Carlyle, and Tennyson.

Miss Pace.

For graduates who have completed 2, 3 and 4.

10. *American Literature* 3
 Critical study of the life and works of Irving, Poe, Hawthorne, Emerson, Longfellow, and Sidney Lanier.

Miss Pace.

For graduates who have completed 2, 3 and 4.

NOTE.—At present not more than one of the above graduate courses will be given in any one year to resident students.

GERMAN.

- I. *Modern German, Elementary* 3
 Thomas's Grammar with composition; Brandt's Reader (150 pages) containing selections from the simple prose of Grimm, Niebuhr, and late authors, and from the lyrics of Goethe, Schiller, Heine, Uhland, and other poets; three lyric gems memorized.

Miss Pace.

Required of Juniors in Arts, Course II., and of Juniors in Science. A separate course of sight reading and conversation may be given once a week.

2. *Schiller and German History*.....3
 Schiller's Piccolomini; Schrakamp's Deutsche Geschichte; Bernhardt's Deutsche Litteraturgeschichte; grammar and composition continued; original composition.
 Professor Willis.
 Required of Seniors in Arts, Course II., and of Seniors in Science.
3. *Lessing and Goethe*2
 Lessing's Emilia Galotti; Goethe's Goetz von Berlichingen and prose selections (Hart). For reference in 2 and 3: Scherer's German Literature; Whitney's and Brandt's Grammars; Behaghel's Historical Grammar; Jagemann's Syntax; Heath's Dictionary or Adler's Quarto.
 Professor Willis.
 Required of Seniors in Arts, Course II., and of Seniors in Science, Course I.
4. *German at Sight and Conversation*.....2
 Stern's Studien und Plaudereien II.; Auerbach's Brigitta; Heyse's L' Arrabiata; Hillern's Höher als die Kirche.
 Professor Willis.
 Required in connection with 3 or 4.
5. *Graduate Courses in German*.....3
 One of the following courses of one year each may be taken at the professor's convenience: (1) Life and Works of Goethe, (2) of Schiller, (3) of Lessing, (4) Old and Middle High German, (5) Gothic and Germanic Philology.
 For graduates who have completed 2, 3 and 4.
 NOTE.—2, 3 and 4 have different Readings in 1896, and each may be taken for two consecutive years.

FRENCH.

1. *Modern French, Elementary*.....3
 Edgren's Grammar with composition; Whitney's Reader, containing simple prose tales and extended selections from Daudet, Dumas, Scuevestre, Michelet, Lamartine, and other nineteenth century authors, and a few lyrics from Victor Hugo, Béranger, Gautier, and other poets.
 Miss Pace.
 Required of Freshmen in Arts, Course II., of Freshmen in Science, Courses II., III., IV., V., and of Sophomores in Science, Course I. A separate course of sight reading and conversation may be given once a week.
2. *Nineteenth Century Writers, Advanced*.....2
 Souvestre's Un Philosophe sous les Toits; Victor Hugo's Ruy Blas; Duval's Littérature Française; grammar and composition continued. For reference in 2 and 3: Whitney's Grammar; Harrison's French Syntax; Brachet's Historical Grammar; Saintsbury's History of French Literature and other larger works. Dictionaries: Spier's and Surenné's Quarto, Heath's, The Classic.
 Miss Pace.
 Required of Sophomores in Arts, Course II., of Sophomores in Science, Courses II., III., IV., and V.

3. *The French Classic Drama*.....3
Critical study of representative authors: Corneille's Cid; Racine's Esther; Molière's Bourgeois Gentilhomme and Le Misanthrope; grammar and composition continued; original composition.
Miss Pace.
Required of Juniors in Arts, Course II.
4. *French at Sight and Conversation*.....2
Worman's Second Book; Fleury's Histoire de France; George Sand's La Mare au Diable.
Miss Pace.
Required in connection with 2 or 3.
5. *Graduate Courses in French*.....3
One of the following courses of one year each may be taken at the professor's convenience: (1) Life and works of Molière, (2) of Corneille and Racine, (3) of Voltaire, (4) of Victor Hugo, (5) Old French.
For graduates who have completed 2, 3 and 4.
NOTE.—2, 3 and 4 have different readings in 1896, and each may be taken for two consecutive years.

SPANISH.

1. *Modern Spanish, Elementary*3
Edgren's Spanish Grammar with composition; Worman's First Spanish Book; Knapp's Spanish Readings, containing extracts from Fernan Caballero, Selgas, Lafuente, Valera, and other authors.
Professor Willis.
Allowed as a substitute for French 2 and 4, or for French 3. Ordinarily this class will not be formed for less than five students. A separate course of sight reading and conversation may be given once a week.
2. *The Spanish Classic Writers* 3
Selections from Don Quixote; Lope's La Estrella de Sevilla; Calderon's El Principe Constante; Conant's Spanish Literature; grammar and original composition. For reference: Knapp's Grammar; Sismondi's Literature; Clarke's Spanish Literature; Velasquez's Quarto Dictionary.
Professor Willis.
Allowed as a substitute for French 3.
3. *Spanish at Sight and Conversation*2
Worman's Second Book; Colmena Española; Caballero's La Familia de Alvareda.
Professor Willis.
Allowed as a substitute for French 4.

ITALIAN.

1. *Elementary Course* 3
Grandgent's Grammar with composition; Italian Principia II. (readings from standard authors selected for beginners); Sonzogno's Letteratura Italiana.
Elective at the professor's convenience, but will not be taught for less than five students.

2. *Advanced Course* 3
 Nota's *La Fiera*; Ongaro's *Rosa dell' Alpi*; Tasso's *Gerusalemme Liberata*; grammar and composition continued. For reference: Cuore's *Grammar*; Sismondi's *Literature*. Dictionary: *Millhouse*, or *Baretti*.
 Elective at the professor's convenience.

LATIN.

J. C. FUTRALL, Professor.

In this department there are five courses:

1. *Sallust, Cicero and Virgil*..... 3
 An accurate knowledge of the Latin forms is insisted upon; exercises in prose composition taken from Gildersleeve's *Exercise Book*; *Roman History*.
 Required of Freshmen in Arts.
2. *Livy, Cicero, and Horace*..... 3
 Systematic study of the grammar; exercises in prose composition taken partly from Gildersleeve's *Exercise Book*, partly from the authors read in class; the Latin metres and rhythm; sight reading; parallel reading may be assigned from the authors read in class; *Roman Literature*.
 Required of Sophomores in Arts.
3. *Junior Course*..... 3
 The object of this course is to give the student greater facility in turning English into Latin and Latin into English. The study of the *Grammar* will be continued and exercises for translation into Latin, based on the text, will be prepared by the Professor. Sight reading will be continued and parallel reading will be assigned from which the translations for examination will be taken. *Roman Literature*. The authors read in '95 will be Cicero, Tacitus, Livy, Horace.
 Required of Juniors in Arts, Course III.
4. *Senior Course*..... 3
 This course is a continuation of Course 3. The authors read in '95 will be Cicero, Juvenal, Seneca, and Pliny. Translation at sight of idiomatic English into idiomatic Latin. The translations for examination will be taken partly from the parallel reading assigned, and partly from Latin that the class has not seen.
 Elective for students who have completed Course III.
5. *Graduate Course*..... 3
 Students who have completed course 4 may take, at the Professor's convenience, a graduate course, which for '95 will consist of the *Life and Works of Plantus*, with a critical study of the archaic period of the language.

Text-books: Gildersleeve's Grammar (Lodge); White's English Latin Lexicon; Harpers' Latin Lexicon; Liddell's History of Rome; Bender's Roman Literature; Crutwell's Roman Literature; Gildersleeve's Exercise Book; any approved edition of the Latin authors may be used except when certain editions are prescribed.

GREEK.

C. H. LEVERETT, Professor.

The subjects taught in this department are the Greek Language and Literature and the History of Greece. Authors are read in the order of their difficulty, and neatly written translations are required at stated intervals. The grammar and idioms of the language are carefully studied and compared with those of English and other languages.

Marked attention is paid to the rendering of English into Greek and correct accentuation is required. In the lower classes the best manuals for Greek composition are used; for the higher classes carefully graded exercises are prepared by the professor.

Due prominence is given to the study of Greek metres and to sight reading. The grammars are made the basis of this instruction, but fuller explanation is given in lectures.

Goodwin's Grammar (last edition), with the method of pronunciation recommended by the American Philological Association, is used throughout the course. The courses for 1895 are as follows.

1. *Elementary Greek* 3
Frost's Greek Primer; Goodwin's Grammar; one book of Xenophon's Anabasis (Harper and Wallace).
Required of Freshmen in Arts, Course III.
2. *Xenophon and Lysias* 3
Three books of Xenophon's Anabasis; three orations of Lysias; Jones's Prose Composition with Goodwin's Grammar.
Required of Sophomores in Arts, Course III.
3. *Greek History and Geography* 1
Smith's Smaller History of Greece; Ginn's Ancient Atlas.
For reference: Cox, Curtius, Grote.
Required of Sophomores or Juniors in Arts, Course III.

4. *Herodotus and Homer* 3
 Selections from the 6th, 7th, and 8th books of Herodotus (Mather); four books of Homer's Iliad; Jones's Prose Composition (completed); sight reading.
 Required of Juniors in Arts, Course III.
5. *Demosthenes and Plato*..... 2
 Four orations of Demosthenes, or the Oration on the Crown; the Euthyphro, Menexenus, and Gorgias of Plato; sight reading.
 Elective for students who have completed 1 and 2.
6. *Thucydides and the Drama*..... 3
 The first book of Thucydides (Morris); the Medea of Euripides; the Antigone of Sophocles; Greek Literature (Jebb); sight reading; original composition with Grammar.
 Elective for students who have completed 1, 2 and 4, or 5.
7. *The Drama and Epic Poetry*..... 2
 The Ajax of Sophocles; the Prometheus of Æschylus; rapid reading of Homer's Iliad, twelve books.
 Elective for students who have completed 1, 2 and 4, or 5.
8. *Hellenistic Greek*..... 2
 The critical study of the New Testament in the original Greek, with comparison of the translations of Wycliffe, Tyndale, King James, and the revised version of 1881; Westcott and Hort's Text with Green's Vocabulary. For reference: Scrivener, Bosworth and Waring, Bloomfield, and others.
 This course is primarily for students interested in theology. Elective for students who have completed 1 and 2, and for others at the discretion of the professor.
 BOOKS OF REFERENCE FOR THE ABOVE COURSES:—Liddell & Scott's Greek-English Lexicon (7th Oxford Edition); Yonge's English-Greek Lexicon; Classical Dictionary; Classical Atlas; Goodwin's Moods and Tenses (last edition); Hadley's and Curtius's Grammars.
9. *Graduate Courses in Greek*.
 One of the following courses of one year each is offered to graduate students for 1895: The life and complete works of (1) Sophocles and Æschylus, (2) of Euripides, (3) of Aristophanes, (4) of Homer, (5) of Herodotus and Thucydides, (6) of Demosthenes, (7) of Plato (one-half of his works), (8) of Aristotle (one-half of his works). With each of these courses there is collateral work in history, archæology, etc.

NOTE:—In 1896 there will be different readings in 4, 5, 6, 7, and 8, and any of these courses may be taken for two consecutive years. By comparison with announcements of past years, it may be seen that the University now offers more facilities than ever before for the study of Greek.

HISTORY AND PEDAGOGY.

J. F. HOWELL, Professor.

HISTORY.

1. *Constitutional History*.....2
Text-book: Fiske's Civil Government; lectures and reading.
Required of Freshmen in Arts, Course IV., and of Sophomores in the Normal Course.
2. *General History*.....3
Text-book: Myers' General History; collateral reading.
Required of Sophomores in Arts and Science.
3. *English History*.....1
With special reference to the development of the English language and literature. Lectures and recitations on topical reading.
Required of Sophomores in Arts, Courses II. and III.
4. *Ancient History*.....2
In the light of recent discoveries and investigations; Egypt and Israel, Greece and Rome. Lectures and recitations on assigned topics.
Required of Juniors in Arts, Course IV.
5. *Ecclesiastical History*.....2
Outlines of church history from the rise of Christianity to the present time. Lectures and recitations on assigned reading.
Elective for Seniors and Juniors who have passed in course 2.
6. *European History*.....2
From the fall of Rome to the present time. Lectures, recitations on assigned reading, and topical research.
Required of Seniors in Arts, Courses II. and IV.
7. *American History*.....2
From the earliest explorations to the present time. Lectures, recitations on assigned periods, and topical research.
Required of Seniors in Arts, Course IV.

PEDAGOGICS.

1. *Pedagogy*2
Text-book: White's Elements of Pedagogy, with lectures and collateral reading.
Required of Freshmen in the Normal Course.
2. *School Management*.....3
Three times a week first term and once a week second term. Text-book: Baldwin's School Management, and collateral reading.
Required of Sophomores in the Normal Course.

3. *History of Education*..... 2
Twice a week, second and third terms. Text-book: Painter's History of Education, with collateral reading.
Required of Sophomores in the Normal Course.
4. *School Law*..... 1
Once a week third term. Decisions of State Supreme Courts on questions relating to the rights and duties of school officers, parents, and children. The school laws of Arkansas. Text-books: Burke, The Law of Public Schools, and the text of the Arkansas school laws.
Required of Sophomores in the Normal Course.

PHARMACY.

_____, Instructor.

1. *Theoretical Pharmacy* 3
Elementary course. Lectures and recitations three times per week throughout the year. The history and development of pharmacy. The pharmacopœia and dispensaries will receive detailed attention.
Required of first year students, Course in Pharmacy.
2. *Theoretical Pharmacy* .. 3
Advanced course. This course deals chiefly with the consideration in detail of the pharmacy of organic drugs. It embraces a careful study of every important galenical preparation, with method of preparation, physical characteristics, reactions, etc.
Required of second year students, Course in Pharmacy.
3. *Practical Pharmacy*..... 2
First course. Laboratory work two afternoons per week. The course includes practice in dry grinding and powdering, comminution, contusion, trituration, elutriation and levigation, heat and its uses in pharmacy, solutions, dialysis, maceration, precipitation, etc.
Required of first year students, Course in Pharmacy.
5. *Practical Pharmacy*..... 2
Second course. Preparation of pills, solutions, mixtures, cachets, ointments, plasters, suppositories, powders, etc. Study of prescriptions, incompatibility, solubility, etc.
Required of second year students, Course in Pharmacy.

MATERIA MEDICA.

This subject occupies two years of instruction and is taken up in the following order: Roots, rhisomes, tubers and bulbs; woods, barks, herbs, and flowers; leaves and leaflets, fruits, seeds, miscellaneous.

Required both years in Pharmacy Course.

MILITARY SCIENCE AND TACTICS.

1st Lieut. Elias Chandler, 16th U. S. Infantry, Professor.

1. *Practical Work* 2
Three hours per week. In school of the soldier, squad, platoon, company, and battalion, close and extended order; ceremonies of guard mounting, dress parade, inspection, and review; artillery drill in the school of the cannoneer; camping, guard duty, target practice, and signaling. In this work the cadet officers act as instructors, thus putting into practice the knowledge gained in previous years.
Required of all male students over 15 years of age.
2. *Recitations and Lectures* I
One hour per week. Infantry Drill Regulations (U. S. Army, Part I); Manual of Guard Duty (U. S. Army).
Required of male Freshmen.
3. *Recitations and Lectures* I
One hour per week. Infantry Drill Regulations (U. S. Army, Part II.); Rifle Firing (Blunt).
Required of male Sophomores.
4. *Recitations and Lectures* I
One hour per week. Field Fortifications and Entrenchments (Wheeler); Military Signaling (Morton).
Required of male Juniors.
5. *Recitations and Lectures* I
One hour per week. Service of Security and Information (Wagner); Military Law (Winthrop).
Required of male Seniors.

ELOCUTION.

JESSIE L. CRAVENS, Instructor.

The object of this department is a harmonious development of both mind and body along those lines of culture that lead to power and refinement of speech and action.

Art predetermines her effects. To know what and how to do precedes the doing. A complete course of technical drill lays the foundation for advanced work in expression. An artistic presentation can come only through a perfected technique, and that is attained only by constant practice in voice exercises, articulation, and action. The true state of the soul may then be expressed through the trained body;

vital, through voice; mental, through articulatory speech; emotive, through action.

The course of instruction comprises a thorough training in the essentials of expression.

I. *Physical Training.*

The course includes thorough drill in:

1. Light Gymnastics,
To promote health,
To give vigor and tone.
2. Aesthetic Gymnastics,
(In accordance with the laws of Delsarte)
For the attainment of grace, precision, and harmony in action.

2. *Voice Culture.*

1. Respiration.
To breathe naturally. Economy of breath.
Drill in deep, effusive, expulsive and explosive forms, as a basis for voice work.
2. Voice.
Exercises for the production and cultivation of open, pleasing, and musical tones. To avoid shrill and loud tones.
3. Articulation.
To acquire a correct use of the articulatory organs. Exercises upon elementary sounds, separately and in combination. Syllabication, accent, and pronunciation. Defects of speech.

3. *Expression.*

Modulation, inflection, emphasis, pitch, quantity, and movement. Qualities. Application of tone effects. Light and shade in tone. Transitions. Pause effects. Facial expression. Action and repose. Naturalness. Clearness.
To analyze the sentence for the thought and feeling contained therein, and to produce it in correct and artistic form.

TEXT-BOOKS.

The books in use and for reference are Southwick's *Elocution and Action*, Stebbins' *System of Expression*, Adams' *Gesture and Pantomimic Action*, Werner's *Readings and Recitations*, etc.

Instruction is given chiefly by lecture, no special text being strictly adhered to, but always supplemented by the *voice of the teacher*.

This department is open to all students in the Collegiate and Sub-Freshman classes. *Twice a week for each class.*

INSTRUMENTAL MUSIC.

BELLE WILSON, Instructor in Instrumental Music.

PIANOFORTE COURSE.

FIRST GRADE.

Elementary exercise; Duets and studies from Lebert & Stark's Pianoforte School, Part I. Loeschhorn Op. 38 and 56, and Koehler Op. 50.

SECOND GRADE.

Lebert & Stark's Pianoforte School, Part II. Clementi's Sonatinas. Heller's Studies, Op. 47, Loeschhorn Op. 66, Bertini Op. 29 and 32, and Czerny's School of Velocity.

THIRD GRADE.

Lebert & Stark's Pianoforte School, Part III. Loeschhorn Op. 67, Kuhlau's Sonatinas, Bach's Inventions and Czerny Op. 740.

FOURTH GRADE.

Heller's Art of Phrasing, Moscheles Op. 70 and 73, Kullak's Octave Studies, Clementi's Gradus ad Parnassum and Haydn's Sonatas.

FIFTH GRADE.

Cramer's Studies, Bach's Preludes and Fugues, Koehler Op. 120, Chopin Op. 25, and Beethoven's Sonatas.

Selected sections of Plaidy's Technics and Mason's Touch and Technics used all through the course.

TERMS :

Twelve weeks—two lessons per week.

Pianoforte and Organ	\$12.00
Thorough Bass and Harmony	5.00
Use of Piano one hour every day	2.35
Tuition payable in advance.	

No deduction will be made on account of absence from recitations except in case of prolonged sickness.

VOCAL MUSIC.

MRS. A. D. DAVIS.

True cultivation of the voice consists in the development of pure tone, and its easy, natural use and control in singing.

Attention is given to respiration as an art applicable to singing; position of mouth and tongue, and control of the face in singing; emission of voice on vowels; exercises for uniting the registers; practice on sustained tones in the entire range of the voice; exercises in agility and velocity; exercises in articulation of consonants and vowels; study of delivery and expression; the formation of good style, etc.

COURSE OF STUDY.

Rœder's Fundamental Vocal Exercises, Concone, Nava, Abt, Sieber, Panseron, Panofka, and other technical works; songs of the English, Italian, French, and German Schools; church music; study of the opera and oratorio. The course may be completed in three or four years or longer time, according to the ability and energy of the student.

TERMS:

Twelve weeks in vocal culture, two hours per week	\$12.00
Tuition payable in advance.	

FINE ART.

EFFIE VIRA HART, Instructor.

Patience and perseverance, rather than talent, are the qualifications essential to success.

Students are taught from the beginning to draw from simple objects and plaster casts. No ruling or measuring is permissible, and more attention is given to the training of the eye than of the hand. The student must have a good understanding of form, perspective, and light and shade before he can use color. He may then work in oil, water color, or pastel, or all three, if it be desired, though all students are required to work in black and white a part of the time.

Copying is discouraged. A true student of art is a student of nature. He is not taught to make pictures, but to make studies true to life.

Attention is given to outdoor sketching.

TERMS:

Twelve weeks.....\$10.00

Tuition payable in advance.

Students may work five days in the week, if convenient.

SCHEDULE OF COLLEGIATE RECITATIONS.

Figures to the left show the term during which the subject is studied; those to the right show the number of the course.

8:45	9:45	10:45	11:45	11:45	11:45	1:30	2:30	3:30
German 2, T., Th., S. German 3, W., F. Mil. Science, M.	German 4, T., Th. Greek 8, T., Th. Psychology, M., W., F.	Anglo-Saxon, T., Th., S. Greek 7, M., W. Metallurgy, T., Th., F.	Am. History, M., Th. Eur. History, T., F. Geology, 3 & 4, M., W., F. Tech. Chemistry, T., Th., S. Zoology 4, T., Th., S.	English Philology, W. Greek 6, T., Th., F. Botanical Laboratory. Chemical Laboratory. Geological Laboratory. Zoological Laboratory.	English Philology, W. Greek 6, T., Th., F. Botanical Laboratory. Chemical Laboratory. Geological Laboratory. Zoological Laboratory.	English Philology, W. Greek 6, T., Th., F. Botanical Laboratory. Chemical Laboratory. Geological Laboratory. Zoological Laboratory.	Latin, M., W., F. Mathematics, Mathematical Astronomy. Botanical Laboratory. Chemical Laboratory. Geological Laboratory. Zoological Laboratory.	Latin, M., W., F. Mathematics, Mathematical Astronomy. Botanical Laboratory. Chemical Laboratory. Geological Laboratory. Zoological Laboratory.
Geology, 1, M., W., F. German, T., Th., S. Greek 5, T., Th. 1 and 2 Logic, W., F.	3 Astronomy, M., T., Th., F. Botany 2, W., F. English 4, W., S. 1 & 2 Math., M., T., Th., F. Zoology 2, T., Th.	Entomology 1, W., F. French 3, T., Th., S. Latin, M., T., Th. Organ. Chem., T., Th., S. Surveying, T., Th.	1 Chemistry 5, T., W., Th. English 3, T., F. Greek 4, Th. Greek History, F. Mil. Science, M. Spanish 2, W., Th., S. 2 Mineralogy, M.—F.	Greek 4, M., W. History 4, M., F. Polit. Economy, T., Th. Spanish 3, F. Field Work, T., W. Botanical Laboratory, T. Chemical Laboratory, M.—F. Geological Laboratory, T., W., Th., S. Zoological Laboratory, M., W., F.	Greek 4, M., W. History 4, M., F. Polit. Economy, T., Th. Spanish 3, F. Field Work, T., W. Botanical Laboratory, T. Chemical Laboratory, M.—F. Geological Laboratory, T., W., Th., S. Zoological Laboratory, M., W., F.	Greek 4, M., W. History 4, M., F. Polit. Economy, T., Th. Spanish 3, F. Field Work, T., W. Botanical Laboratory, T. Chemical Laboratory, M.—F. Geological Laboratory, T., W., Th., S. Zoological Laboratory, M., W., F.	Spanish 3, W. Field Work, T., W. Botanical Laboratory, T. Chemical Laboratory, M.—F. Geological Laboratory, T., W., Th., S. Zoological Laboratory, M., W., F.	Spanish 3, W. Field Work, T., W. Botanical Laboratory, T. Chemical Laboratory, M.—F. Geological Laboratory, T., W., Th., S. Zoological Laboratory, M., W., F.
French 2, W., F. Latin, T., Th., S. Materia Medica, M., W., F. Normal Studies, M., W., F. Toxicology, T., Th., S. 1 Vet. Anatomy, M., W., F. 2 & 3 Vet. Science, M., W., F.	Agriculture, T., Th. Const. History, T., Th. English, W., F. English History, S. French 4, T., Th. Zoology 1, S.	Biography 1, T., Th. Chemistry 2, M., W. English, W., F. Gen. History, T., Th., S. Pharmacy, T., Th., S. Physics 2, F. Stock Breeding, M., W., F. Surveying, T., Th.	Botany 1, T., Th. 3 Chem. Philos., M., T., Th. 2 & 3 Da y Hus., M., T., W., F. 1 Horticulture, M., W., F. Mathematics, M.—F. Mil. Science, S. Physics 1, M., T., Th., F. Physics 2, F.	Drawing. Field Work, T., W. Biological Laboratory. Botanical Laboratory, T., Th. Chemical Laboratory, M.—F. Physics 2, Th. Zoological Laboratory, M., F.	Drawing. Field Work, T., W. Biological Laboratory. Botanical Laboratory, T., Th. Chemical Laboratory, M.—F. Physics 2, Th. Zoological Laboratory, M., F.	Drawing. Field Work, T., W. Biological Laboratory. Botanical Laboratory, T., Th. Chemical Laboratory, M.—F. Physics 2, Th. Zoological Laboratory, M., F.	English, T., Th., F. Drawing. Biological Laboratory, M. Botanical Laboratory, T., Th. Chemical Laboratory, M., F. Physical Laboratory, W. Zoological Laboratory, M., F. Shop or Farm.	English, T., Th., F. Drawing. Biological Laboratory, M. Botanical Laboratory, T., Th. Chemical Laboratory, M., F. Physical Laboratory, W. Zoological Laboratory, M., F. Shop or Farm.
Engineering 1, M., W. English, M., W., F. English, T., Th., S. Latin, M., W., F. Mathematics, M.—F. Shop or Farm.	Chemistry 3, M., W., F. Const. History, T., Th. French, T., Th., S. Greek, M., W., F. Latin, M., W., F. Zoology 1, S.	Agriculture, M., W., F. Biography 1, T., Th. French, M., W., F. Mathematics, M.—F. Mil. Science, S. Pharmacy, M., W., F.	Botany 1, T., Th. Mathematics, M.—F. Mil. Science, W. Pedagogy, W., S. Physics, 1, M., T., Th., F.	French, T., Th., F. Drawing. Biological Laboratory, M. Botanical Laboratory, T., Th. Chemical Laboratory, M., F. Physical Laboratory, W. Zoological Laboratory, M., F. Shop or Farm.	French, T., Th., F. Drawing. Biological Laboratory, M. Botanical Laboratory, T., Th. Chemical Laboratory, M., F. Physical Laboratory, W. Zoological Laboratory, M., F. Shop or Farm.	French, T., Th., F. Drawing. Biological Laboratory, M. Botanical Laboratory, T., Th. Chemical Laboratory, M., F. Physical Laboratory, W. Zoological Laboratory, M., F. Shop or Farm.	English, T., Th., F. Drawing. Biological Laboratory, M. Botanical Laboratory, T., Th. Chemical Laboratory, M., F. Physical Laboratory, W. Zoological Laboratory, M., F. Shop or Farm.	English, T., Th., F. Drawing. Biological Laboratory, M. Botanical Laboratory, T., Th. Chemical Laboratory, M., F. Physical Laboratory, W. Zoological Laboratory, M., F. Shop or Farm.

NOTE.—The Schedule for the Senior and Junior Engineering Students will be published at the beginning of each term.

THE SCHOOL OF AGRICULTURE.

FACULTY.*

J. L. BUCHANAN, President.
A. E. MENKE, Chemistry, Physics, and Agriculture.
W. B. BENTLEY, Chemistry and Physics.
O. C. GRAY and G. W. DROKE, Mathematics.
JEROME MCNEILL and S. E. MEEK, Biology.
R. H. WILLIS and IDA PACE, English.
E. CHANDLER, Military Science and Tactics.
R. R. DINWIDDIE, Veterinarian of Ag'l Exper't Station.
W. F. BATES, Foreman of Farm and Instructor in Dairying.

REQUIREMENTS FOR ADMISSION.

(See Pages 35-38.)

*All students in this school must consult Professor Menke immediately after registration.

COURSE IN AGRICULTURE.

The School of Agriculture is designed and organized to give both theoretical and practical instruction in the various branches of agriculture. Special preparation is needed no less for the pursuit of agriculture than for law, medicine, or divinity. The method of instruction now employed is classroom work, accompanied by practical demonstrations in the field, dairy, and laboratories. The equipment for practical work will compare favorably with those of other agricultural colleges; the machinery is new and of the most improved pattern, all selected with a view to its economic value. The dairy has been recently fitted up with Laval's separator and other necessary implements. We have a large vineyard and orchard for practical horticultural work; a herd of pure stock of different breeds, so that the students can be instructed in

the work that occurs on either a stock, dairy, fruit, or cropped farm. The Board of Trustees offered last year the following prizes:

FOR THE BEST BUTTER.

1st Prize.....	\$45.00
2d ".....	20.00
3d ".....	10.00

FOR THE MOST PROFITABLE CROP.

1st Prize.....	\$40.00
2d ".....	15.00
3d ".....	10.00

THE BEST YIELD OF MANGOLDS.

1st Prize.....	\$35.00
2d ".....	15.00
3d ".....	10.00

The rules governing the contest are as follows:

Students wishing to compete for these prizes must remain through the entire season for cultivation and must be a recognized student when the crop is gathered or harvested. Any withdrawal or disconnection from the University during the season of cultivation or gathering the crop will exclude such student from the contest. Students in the Agricultural Department only are allowed to compete.

FARMERS' COURSE FOR CERTIFICATE IN AGRICULTURE.

FRESHMAN YEAR.

	Hours per week
Biology I (<i>General Biology</i>).....	3
Chemistry I (<i>Agricultural Chemistry</i>).....	3
English I (<i>Rhetoric and English Literature</i>).....	3
Mathematics 1, 2, and 3, (<i>Algebra, Geometry and Trigonometry</i>).....	5
Botany I (<i>Systematic Botany</i>).....	3

SOPHOMORE YEAR.

Veterinary Anatomy.....	3
Agriculture.....	2
Horticulture (first term).....	4
Dairy Husbandry (second and third terms).....	4
Stock Breeding.....	3
Chemistry 3 (<i>General Chemistry</i>).....	5

Students who have completed this course may take the Junior and Senior years in the College of Science and graduate with the Degree of Bachelor of Science.

FARMERS' INSTITUTES.

Under direction of the University authorities, a series of Farmers' Institutes was held in 1894 at Washington, Arkadelphia, Searcy, and Monticello. Papers were read by President Buchanan and Professors Menke and McNeill, and by Agriculturists Bennett, Newman, and Bates, and a general discussion followed. The subjects were of a practical character and treated of points that are usually obscure, but that can be elucidated by explanation and discussion. This series of Farmers' Institutes was the first ever held in the State, and it is hoped that the number may be increased in future.

Counties desiring institutes for the year 1895 should apply to the President of the University.

COLLEGE OF MECHANIC ARTS AND ENGINEERING.

FACULTY.*

J. L. BUCHANAN, President, Political Economy.
C. V. KERR, Mechanical Engineering, Superintendent Mechanic Arts.
A. E. MENKE and W. B. BENTLEY, Chemistry and Physics.
O. C. GRAY and G. W. DROKE, Mathematics.
JEROME MCNEILL and S. E. MEEK, Biology and Geology.
R. H. WILLIS and IDA PACE, English.
J. F. HOWELL, History and Pedagogics.
E. CHANDLER, Military Science and Tactics.
W. N. GLADSON, Electrical Engineering.
J. J. KNOCH, Civil Engineering.
MACK MARTIN, Machine Shop, Mechanics.
F. P. NICHOLAS, Wood Shop.
G. W. BASHAW, Foundry and Forge Shop.
C. S. DUGGANS, Engineer.
JESSIE L. CRAVENS, Elocution.

REQUIREMENTS FOR ADMISSION.

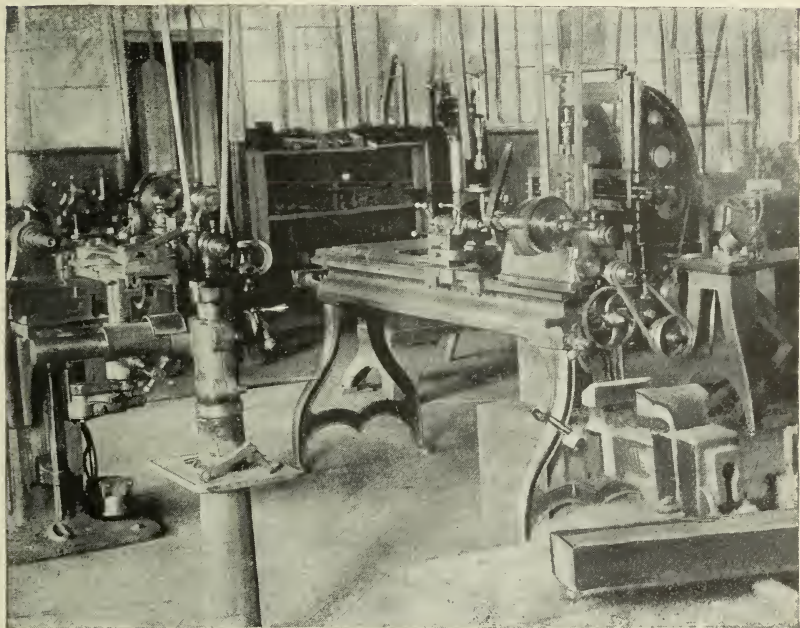
(See Pages 35-38).

*Students in this college must consult Professor Kerr immediately after registration.

GENERAL DESCRIPTION OF COURSES IN ENGINEERING.

Mechanical Engineering directs the design and construction of all forms of machines, and their installation in machine shops, mills, and factories. It directs the design, construction, erection, and operation of boilers, steam and gas engines, locomotives, turbines, and other prime movers; of pumping machinery for waterworks; of machinery, and apparatus for the manufacture of ice, and the distribution of refrigeration from central stations. Since the utilization of

the forces and materials of nature is accomplished in nearly all cases by machines, or by processes working through machinery, it is evident that mechanical engineering is the basis of all industries.



MACHINE SHOP.

Civil Engineering embraces the location and construction of railroads, canals, waterworks, sewerage systems, foundations on land and in water, tunnels, and superstructures; the surveys, improvements, and defenses of coasts, harbors, rivers, and lakes; the application of mechanics, descriptive geometry, and graphics to the design and construction of arch bridges, roofs, truss, and suspension bridges; irrigation and drainage of lands; the location and maintenance of public roads; and the preparation of forms of specifications and contracts.

Electrical Engineering deals with the design and construction of dynamos and motors; the distribution of elec-

tricity for use in illumination, or for driving machinery; the construction and operation of electric railways; the erection and management of telegraph and telephone lines; and with electrolysis and welding of metals.

Theoretical and applied electricity, and mechanical engineering are naturally the leading subjects. Theory is treated in ample breadth and tested by experiments in well equipped laboratories, which affords the student a degree of facility in the use of machines and instruments only acquired in continued practice.

The courses of engineering offered are designed to supply not only mental training but the means of securing a livelihood in the professions to which they lead. It is believed that the most efficient way to teach theory is to unfold it to the student only so fast as he can apply it to the practical work of his course. He thus makes it his own, and theory becomes practice.

CIVIL, MECHANICAL AND ELECTRICAL ENGINEERING.

FRESHMAN YEAR.

	Hours per Week.		
	TERMS:		
	1st.	2d.	3d.
Mathematics, 2, (<i>Geometry</i>).....	3	3	....
Mathematics 1, (<i>Algebra</i>).....	2	2	2
Mathematics 3, (<i>Plane Trigonometry</i>).....	....	....	3
Physics 1, (<i>General Physics</i>)	5	5	5
English 1, (<i>Rhetoric and English Literature</i>).....	3	3	3
Engineering 1, (<i>Drawing</i>)	2	2	2
Engineering 2, (<i>Machine Shops</i>).....	4	4	4

SOPHOMORE YEAR.

Mathematics 4, (<i>Spherical Trigonometry</i>).....	2	....	....
Mathematics 5, (<i>Analytical Geometry</i>).....	3	5	....
Mathematics 6, (<i>Differential Calculus</i>).....	....	....	5
Chemistry 3, (<i>General Chemistry</i>).....	5	5	5
Physics 2, (<i>Physical Measurements</i>).....	1	1	1
Engineering 4, (<i>Surveying</i>).....	2	2	....
Engineering 5, (<i>Field Practice</i>).....	2	2	2
Engineering 7, (<i>Highways</i>).....	....	....	2
English 2, (<i>English, Prose Styl</i>).....	2	2	2
Engineering 3, (<i>Descriptive Geometry</i>).....	2	2	2

MECHANICAL ENGINEERING COURSE FOR DEGREE OF B. M. E.

JUNIOR YEAR.

TERMS:

	1st.	2d.	3d.
Mathematics 7, (<i>Integral Calculus</i>).....	3	3	....
Engineering 22, (<i>Steam Engineering</i>).....	3	3	2
Engineering 10, (<i>Elements of Mechanism</i>).....	3	....	....
Engineering 13, (<i>Machine Design</i>).....	....	3	....
Engineering 18, (<i>Valve Gears</i>).....	....	....	3
{ Political Economy.....	2	2	2
{ or Mathematics 8 and 9, (<i>Astronomy and Logic</i>)....	2	2	3
Engineering 41, (<i>Drawing</i>).....	2	2	2
Engineering 21, (<i>Mechanical Laboratory</i>).....	2	2	2
Engineering 27, (<i>Statics and Dynamics</i>).....	....	2	3
Engineering 20, (<i>Masonry Construction</i>).....	....	....	3
{ Engineering 19, (<i>Dynamo Electric Machinery</i>).....	4	2	....
{ and Engineering 25, (<i>Practical Management of</i>			
{ <i>Dyamos and Motors</i>).....	....	....	2
{ Or Chemistry 5, (<i>Qualitative Analysis</i>).....	5	2	2

SENIOR YEAR.

Engineering 29, (<i>Strength of Materials</i>).....	4	....	....
Engineering 51, (<i>Graphics</i>).....	1	....	....
Engineering 35, (<i>Thermodynamics</i>).....	3	3	....
Engineering 38, (<i>Mechanical Refrigeration</i>) .....	....	....	3
Engineering 54, (<i>Experimental Engineering</i>)	2	2	....
Chemistry 12, (<i>Metallurgy of Iron and Steel</i>).....	3	....	....
Engineering 32, (<i>Fly-Wheels and Reciprocating Parts</i>)..	2	....	....
Engineering 37, (<i>Hydraulics</i>) .....	....	5	....
Engineering 32, (<i>Governors</i>) .....	....	2	....
Engineering 52, (<i>Locomotive Mechanism</i>) .....	....	3	....
Engineering 47, (<i>Pumping Machinery</i>) .....	....	....	3
Engineering 45, (<i>Turbines</i>).....	....	....	2
Engineering 55, (<i>Gas Engines</i>).....	....	....	2
Engineering 49, (<i>Power Plants</i>).....	....	....	1
Engineering 42, (<i>Laws of Business</i>).....	....	....	3
Engineering 40, (<i>Engineering Laboratory</i>).....	2	2	....
Engineering 41, (<i>Drawing</i>)	2	2	....
Engineering 57, (<i>Thesis</i>) .....	....	....	5

CIVIL ENGINEERING COURSE FOR DEGREE OF B. C. E.

JUNIOR YEAR.

	TERMS:		
	1st.	2d.	3d.
Mathematics 7, (<i>Integral Calculus</i>).....	3	3	....
Engineering 22, (<i>Steam Engineering</i>).....	3	3	2
Engineering 9, (<i>Railroad Engineering</i>).....	2	1	4
Geology 3, (<i>Economic Geology</i>).....	3	3	....
Geology 2, (<i>Practical Geology</i>).....	1	1	1
Political Economy.....	2	2	2
Engineering 27, (<i>Statics and Dynamics</i>).....	....	2	3
Engineering 20, (<i>Masonry Construction</i>).....	....	....	3
Engineering 23, (<i>Mine Engineering</i>).....	1	....	....
Engineering 12, (<i>Field Practice</i>).....	2	2	2
Engineering 17, (<i>Drawing</i>).....	2	2	2

SENIOR YEAR.

Chemistry 12, (<i>Metallurgy of Iron and Steel</i>).....	3	....	....
Engineering 29, (<i>Strength of Materials</i>).....	4	....	....
Engineering 51, (<i>Graphics</i>).....	1	....	....
Engineering 47, (<i>Pumping Machinery</i>).....	....	....	3
Engineering 26, (<i>Sanitary Engineering</i>).....	3	....	....
Engineering 28, (<i>Arches and Dams</i>).....	2	....	....
Engineering 34, (<i>Stereotomy and Drawing</i>).....	2	....	....
Engineering 37, (<i>Hydraulics</i>).....	....	5	....
Engineering 48, (<i>Waterworks</i>).....	....	4	....
Engineering 36, (<i>Roofs and Bridges</i>).....	....	4	4
Engineering 56, (<i>Contracts and Specifications</i>).....	....	....	2
Engineering 42, (<i>Laws of Business</i>).....	....	....	3
Mathematics 8, (<i>Astronomy</i>).....	....	....	3
Engineering 44, (<i>Drawing</i>).....	....	2	....
Engineering 31, (<i>Field Practice</i>).....	2	2	....
Engineering 40, (<i>Engineering Laboratory</i>).....	2	2	....
Engineering 57, (<i>Thesis</i>).....	....	....	5

ELECTRICAL ENGINEERING COURSE FOR DEGREE OF B. E. E.

JUNIOR YEAR.

	TERMS:		
	1st.	2d.	3d.
Mathematics 7, (<i>Integral Calculus</i>).....	3	3	....
Engineering 22, (<i>Steam Engineering</i>).....	3	3	2
{ Political Economy.....	2	2	2
{ or Mathematics 8 and 9, (<i>Astronomy and Logic</i>).....	2	2	3
Engineering 27, (<i>Statics and Dynamics</i>).....	....	2	3
Engineering 19, (<i>Dynamo Electric Machinery</i>).....	4	2	....

	Terms:		
	1st.	2d.	3d.
Engineering 25, (<i>Practical Management of Dynamos and Motors</i>) .....	.....	.....	2
Engineering 43, (<i>Theory of Alternate Currents</i>) .....	.....	.....	3
Engineering 11, (<i>Electrical Laboratory</i>)	2	2	2
Engineering 14, (<i>Technical Drawing</i>)	2	2	2
{ Engineering 10, (<i>Elements of Mechanism</i>)	3	.....	.....
{ Engineering 13, (<i>Machine Design</i>) .....	.....	3	.....
{ Engineering 18, (<i>Valve Gears</i>) .....	.....	.....	3
{ Or Chemistry 5, (<i>Qualitative Analysis</i>)	5	2	2

SENIOR YEAR.

Engineering 29, (<i>Strength of Materials</i>)	4	.....	.....
Engineering 51, (<i>Graphics</i>)	1	.....	.....
Engineering 35, (<i>Thermodynamics</i>)	3	3	.....
Chemistry 12, (<i>Metallurgy of Iron and Steel</i>)	3	.....	.....
Engineering 37, (<i>Hydraulics</i>) .....	.....	5	.....
Engineering 32, (<i>Fly-Wheels</i>)	2	.....	.....
Engineering 43, (<i>Theory of Alternate Currents</i>)	2	.....	.....
Engineering 49, (<i>Power Plants</i>) .....	.....	.....	1
Engineering 32, (<i>Governors</i>) .....	.....	2	.....
Engineering 50, (<i>Alternate Current Machinery</i>) .....	.....	3	.....
Engineering 46, (<i>Electric Railways</i>) .....	.....	.....	3
Engineering 53, (<i>Specifications</i>) .....	.....	.....	1
Engineering 42, (<i>Laws of Business</i>) .....	.....	.....	3
Engineering 40, (<i>Engineering Laboratory</i>) .....	.....	2	.....
Engineering 24, (<i>Technical Drawing</i>)	2	2	.....
Engineering 30, (<i>Electrical Laboratory</i>)	2	2	2
Engineering 33, (<i>Telephone and Telegraph</i>) .....	.....	.....	2
Engineering 39, (<i>Absolute Measurements in Electricity and Magnetism</i>) .....	.....	.....	2
Engineering 57, (<i>Thesis</i>) .....	.....	.....	5

MECHANIC ARTS COURSES.

These courses are of four years' duration beginning with the first preparatory class instead of six as in the regular Engineering Courses. They are intended to enable students to acquire sufficient skill at some mechanical occupation to earn a living by it. At the same time they secure a good general education. Thus the Trades Courses will enable students to become skilled as carpenters, blacksmiths, foundrymen, or machinists. The student who educates himself while learning his trade will have a decided advantage over the one

who learns it by the apprenticeship system and will more quickly rise to a position as foreman or superintendent. The Stationary Engineers Course will enable students to take charge of the boilers and engines of a power plant, and, being given a practical knowledge of electricity as well as steam, they can, in small plants, run also the dynamos and motors for light and power.

All of these courses are the same for the first and second preparatory and Freshman classes as for the regular engineering courses.

TRADES COURSES.

SOPHOMORE YEAR.

	TERM.		
	1st.	2d.	3d.
*Chemistry 3, (<i>General Chemistry</i>)	5	5	5
Engineering 22, (<i>Steam Engineering</i>)	3	3	2
Engineering 10, (<i>Elements of Mechanism</i>)	3	....	....
Engineering 13, (<i>Machine Design</i>) .....	....	3	....
Engineering 18, (<i>Valve Gears</i>) .....	....	....	3
Engineering 41, (<i>Drawing</i>)	2	2	2
Engineering 6, (<i>Shop Work</i>)	5	5	5

*Engineering 4 and 5, (*Surveying*), may be substituted for Chemistry.

STATIONARY ENGINEERS COURSE.

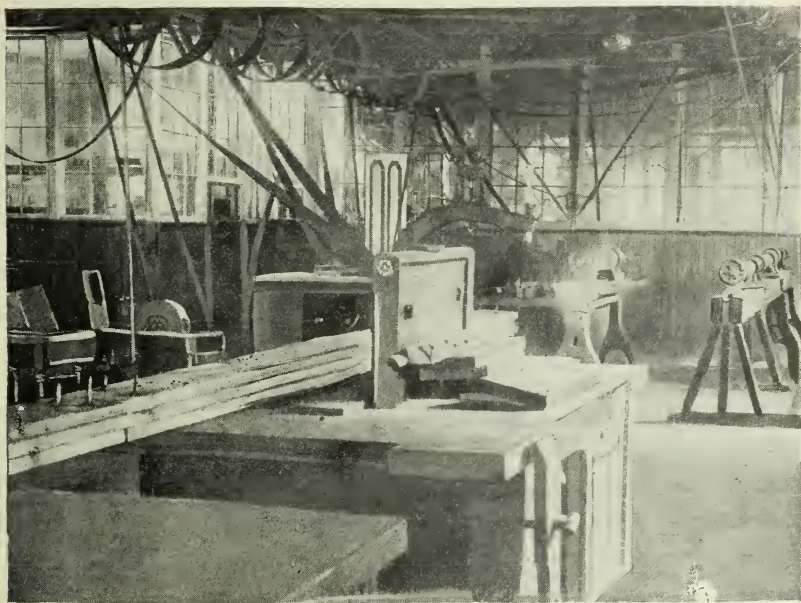
SOPHOMORE YEAR.

	TERM.		
	1st.	2d.	3d.
Engineering 22, (<i>Steam Engineering</i>)	3	3	2
Engineering 19, (<i>Dynamo Electric Machinery</i>)	4	2	....
Engineering 25, (<i>Practical Management of Dynamos and Motors</i>) .....	....	....	2
Engineering 41, (<i>Drawing</i>)	2	2	2
Engineering 10, (<i>Elements of Mechanism</i>)	3	....	....
Engineering 13, (<i>Machine Design</i>) .....	....	3	....
Engineering 18, (<i>Valve Gears</i>) .....	....	....	3
Engineering 20, (<i>Masonry Construction</i>) .....	....	....	3
Engineering 52, (<i>Locomotive Mechanism</i>) .....	....	3	....
Engineering 6f, (<i>Engine, Boiler and Dynamo Running</i>)	5	5	5

NOTE 1.—Students completing one of the courses in Mechanic Arts receive an appropriate certificate.

NOTE 2.—Candidates for admission to the Freshman Class in the College of Mechanic Arts and Engineering will be examined in all the subjects required for admission to the University except Latin. The drawing and shop work will be made up after admission.

NOTE 3.—Every student is required to have the equivalent of fifteen recitations per week, in which two hours of drawing, or shop work, or laboratory work are counted as equal to one recitation. But he will not be allowed to have the equivalent of more than twenty recitations without the consent of the Faculty.



WOOD SHOP.

SHORT COURSE IN ELECTRICAL ENGINEERING.

This course is intended for students lacking time and preparation for the full course, and is especially designed for those students who have had some practical experience in engineering.

The work is more elementary in character than the long course, embracing only the necessary mathematics, which with physics, electrical engineering, and laboratory work, gives the student sufficient theory, supplemented by practice, in the shortest possible time.

During the last year, from one to six hours a week may be devoted to any line of work the student may select.

This course prepares students for practical work, such as managing or superintending, lighting, power, or manufacturing plants. It does not lead to a degree, but a suitable certificate will be given on completion of work.

For laboratory facilities, see Electrical Laboratory, page 26.

Applicants for admission to this course must pass a satisfactory examination in mathematics, as required for admission to the freshman class. See pages 35 and 36.

COURSE OF STUDY.

FIRST YEAR.

	TERMS.		
	1st.	2d.	3d.
Mathematics 1, (<i>Algebra</i>).....	2	2	2
Mathematics 2, (<i>Geometry</i>)	3	3	....
Mathematics 3, (<i>Plane Trigonometry</i>).....	....	....	3
Physics 1, (<i>General Physics</i>).....	5	5	5
Engineering 1, (<i>Mechanical Drawing</i>)	2	2	2
Engineering A, (<i>Wood Working</i>).....	4	....	....
Engineering C and E, (<i>Founding and Forging</i>) .....	....	4	....
Engineering 2, (<i>Machine Shops</i>) .....	....	....	4
Engineering 8, (<i>Electricity and Magnetism</i>)	3	3	3

SECOND YEAR.

	TERMS.		
	1st.	2d.	3d.
Engineering 16, (<i>Electrical Engineering</i>).....	5	5	5
Engineering 11, (<i>Electrical Laboratory</i>).....	2	2	2
Engineering 30, (<i>Electrical Laboratory</i>).....	2	2	2
Engineering 14, (<i>Technical Drawing</i>)	3	3	3
Physics 2, (<i>Physical Measurements</i>)	2	2	2
Engineering 53, (<i>Specifications</i>) .....	....	....	1
Elective.....	6	6	5

COLLEGE OF SCIENCE.

FACULTY.*

J. L. BUCHANAN, President, Psychology.

JEROME MCNEILL, Biology, Botany.

A. E. MENKE and W. B. BENTLEY, Chemistry and Physics.

S. E. MEEK, Geology and Zoölogy.

O. C. GRAY and G. W. DROKE, Mathematics.

R. H. WILLIS and IDA PACE, English and Modern Languages.

J. F. HOWELL, History and Pedagogics.

E. CHANDLER, Military Science and Tactics.

J. J. KNOCH, Civil Engineering.

JESSIE L. CRAVENS, Elocution.

REQUIREMENTS FOR ADMISSION.

(See Pages 35-38).

*All students in this college must consult Prof. McNeill immediately after registration.

GENERAL STATEMENT.

The design of the courses of study offered by this College is first to afford students a liberal education with some branch of science substituted for Latin or Greek, and second to make some one subject in science so prominent that the graduate will have an excellent foundation for a profession. By requiring every graduate to spend at least three years on one branch of science, as chemistry or botany, he is obliged to go much beyond the easy introduction, which is all that is required in the old-fashioned B. S. course, so that he has the advantage of the severe mental discipline which a difficult study affords; and when this course is completed, he has the satisfaction of knowing that he is the possessor of special knowledge which can be turned to immediate use, if he sees fit. Graduates of this College receive the degree Bachelor of Science (B. S.).

I. COURSE WITH CHEMISTRY.

The Course in Chemistry is designed to prepare students for actual work in connection with manufactures based on chemical principles. To the credit of chemistry as an industrial science, the tenth United States census shows, in the United States alone, the existence of 1,349 chemical establishments, employing 29,500 workmen and paying annual wages to the amount of \$11,820,728.

The course extends over four years and embraces class room work, consisting of a full course of lectures on general, theoretical, analytical, industrial, and organic chemistry; nonchemical studies, such as English, modern languages, history, mineralogy, mathematics, and physics being introduced with reference to their bearing on chemical work and for their educational value.

The student spends a large part of the four years in the laboratories. In the first year there is physical and general chemical laboratory practice, in the second year laboratory work in physics, qualitative analysis, and biology, in the third and fourth years in analytical and industrial chemistry.

FRESHMAN YEAR.

	Hours per week.
Chemistry 3 (<i>General Chemistry</i>)	5
Physics 1 (<i>General Physics</i>)	5
English 1 (<i>Rhetoric and English Literature</i>)	3
Mathematics 1, 2, and 3 (<i>Algebra, Geometry, and Trigonometry</i>)	5

SOPHOMORE YEAR. *

Biology 1 (<i>General Biology</i>)	3
Chemistry 5a (<i>Theoretical Qual. Anal.</i>) first term	} 3
Chemistry 6 (<i>Mineralogy</i>) second term	
Chemistry 4 (<i>Chemical Philosophy</i>) third term	
French 1 or Spanish 1	3
History 2 (<i>General History</i>)	3
Physics 2 (<i>Physical Measurements</i>)	2
Chemistry 5b (<i>Practical Qual. Anal.</i>)	3

JUNIOR YEAR.

	Hours per week.
Chemistry 7 (<i>Organic Chemistry</i>).....	3
Geology 1 (<i>General Geology</i>).....	3
German 1.....	3
Chemistry 8 (<i>Quantitative Analysis</i>).....	4
Elective.....	4

SENIOR YEAR.

Chemistry 12 (<i>Metallurgy</i>).....	3
Chemistry 10 (<i>Technical Chemistry</i>).....	3
German 2 and 3	4
German 4	1
Chemistry 11 (<i>Physical Chemistry</i>)	3
Chemistry 9 (<i>Advanced Quantitative Analysis</i>).....	} 4
Chemistry 13 (<i>Assaying</i>)	

II. COURSE WITH BOTANY.

FRESHMAN YEAR.

Biology 1 (<i>General Biology</i>).....	3
Physics 1 (<i>General Physics</i>)	5
English 1 (<i>Rhetoric and English Literature</i>).....	3
Mathematics 2 and 3 (<i>Geometry and Plane Trigonometry</i>)	3
French 1.....	3

SOPHOMORE YEAR.

Botany 1 (<i>Systematic Botany</i>).....	3
Zoölogy 1 (<i>General Zoology</i>).....	3
Chemistry 2 (<i>General Inorganic Chemistry</i>)	3
French 2 and 4.....	3
History 2 (<i>General History</i>).....	3
English 2 (<i>English Prose Style</i>).....	2

JUNIOR YEAR.

Botany 2 (<i>General Morphology of Plants</i>).....	3
Entomology 1 (<i>General Entomology</i>).....	3
Geology 1 (<i>General Geology</i>).....	3
German 1.....	3
Elective.....	4

SENIOR YEAR.

Botany 4 (<i>Vegetable Histology</i>).....	6
German 2 and 4.. ..	3
Psychology.....	3
Elective	4

III. COURSE WITH ENTOMOLOGY.

FRESHMAN YEAR.

	Hours per week
Biology 1 (<i>General Biology</i>).....	3
Physics 1 (<i>General Physics</i>).....	5
English 1 (<i>Rhetoric and English Literature</i>).....	3
Mathematics 2 and 3 (<i>Geometry and Plane Trigonometry</i>).....	3
French 1.....	3

SOPHOMORE YEAR.

Botany 1 (<i>Systematic Botany</i>).....	3
Zoölogy 1 (<i>General Zoology</i>).....	3
Chemistry 2 (<i>General Inorganic Chemistry</i>).....	3
French 2 and 4.....	3
History 2 (<i>General History</i>).....	3
English 2 (<i>English Prose Style</i>).....	2

JUNIOR YEAR.

Entomology 2 (<i>General Entomology</i>).....	6
Botany 2 (<i>General Morphology of Plants</i>).....	3
Geology 1 (<i>General Geology</i>).....	3
German 1.....	3
Elective.....	4

SENIOR YEAR.

Entomology 3 (<i>Economic Entomology</i>).....	6
Psychology.....	3
German 2 and 4.....	3
Elective.....	5

IV. COURSE WITH ZOOLOGY.

FRESHMAN YEAR.

Biology 1 (<i>General Biology</i>).....	3
Physics 1 (<i>General Physics</i>).....	5
English 1 (<i>Rhetoric and English Literature</i>).....	3
Mathematics 2 and 3 (<i>Geometry and Plane Trigonometry</i>).....	3
French 1.....	3

SOPHOMORE YEAR.

Botany 1 (<i>Systematic Botany</i>).....	3
Zoölogy 1 (<i>General Zoology</i>).....	3
Chemistry 2 (<i>General Inorganic Chemistry</i>).....	3
French 2 and 4.....	3
History 2 (<i>General History</i>).....	3
English 2 (<i>English Prose Style</i>).....	2

JUNIOR YEAR.

	Hours per week.
Zoölogy 2 (<i>Vertebrate Anatomy</i>).....	3
Botany 2 (<i>General Morphology of Plants</i>)	3
Geology 1 (<i>General Geology</i>)	3
German 1	3
Elective.....	4

SENIOR YEAR.

Zoölogy 4 and 5.....	6
Psychology.....	3
German 2 and 4.....	3
Elective.....	4

V. COURSE WITH GEOLOGY.

FRESHMAN YEAR.

Biology 1 (<i>General Biology</i>).....	3
Physics 1 (<i>General Physics</i>)	5
English 1 (<i>Rhetoric and English Literature</i>).....	3
Mathematics 2 and 3 (<i>Geometry and Plane Trigonometry</i>).....	3
French 1.....	3

SOPHOMORE YEAR.

Botany 1 (<i>Systematic Botany</i>).....	3
Zoölogy 1 (<i>General Zoology</i>).....	3
Chemistry 2 (<i>General Inorganic Chemistry</i>).....	3
French 2 and 4	3
History 2 (<i>General History</i>).....	3
English 2 (<i>English Prose Style</i>).....	2

JUNIOR YEAR.

Geology 1 and 2 (<i>General and Practical Geology</i>)	5
German 1.....	3
Engineering 4 (<i>Surveying</i>)	3
Elective.....	5

SENIOR YEAR.

Geology 2 (<i>Practical Geology</i>).....	2
Geology 4 or 5 (<i>Paleontology or Petrography</i>)	3
German 2 and 4.....	3
Psychology.....	3
Elective.....	5

THE COLLEGE OF LIBERAL ARTS.

FACULTY.

J. L. BUCHANAN, President, Psychology and Ethics.
R. H. WILLIS, English and Modern Languages.
O. C. GRAY and G. W. DROKE, Mathematics, Astronomy, and Logic
IDA PACE, English and Modern Languages.
C. H. LEVERETT, Greek.
J. F. HOWELL, History and Pedagogics.
J. C. FUTRALL, Latin.
A. E. MENKE and W. B. BENTLEY, Chemistry and Physics.
JEROME MCNEILL and S. E. MEEK, Biology and Geology.
E. CHANDLER, Military Science and Tactics.
JESSIE L. CRAVENS, Elocution.

REQUIREMENTS FOR ADMISSION.

(See Pages 35-38).

CLASSICAL COURSES FOR DEGREE OF BACHELOR OF ARTS (B. A.).

Each of these courses is designed to furnish a liberal education, to give superior mental discipline, and to prepare students to enter upon professional studies—law, medicine, journalism, etc. Each contains, besides English, not less than six yearly courses in languages, and at the same time the arrangement of elective studies allows students to give special attention to mathematics, to any branch of science, to history, or to one of the ancient or modern languages. Each class has such practical work as the subject requires, and optional studies in elocution or in other branches are allowed to the limit of twenty hours per week. The courses are merely outlined here. For details concerning the studies mentioned, consult Departments of Instruction, beginning on page 52.

I. COURSE WITH MATHEMATICS.

FRESHMAN YEAR.

	Hours per week.
Latin	3
Mathematics 1 (<i>Algebra</i>)	2
Mathematics 2 and 3 (<i>Geometry and Plane Trigonometry</i>)	3
Greek 1, or French 1	3
English 1 (<i>Rhetoric and English Literature</i>)	3
Biology 1, Botany 1, or Zoölogy 1	3

SOPHOMORE YEAR.

Latin 2	3
Mathematics 4, 5 and 6	5
History 2 (<i>General History</i>)	3
History 3 (<i>English History</i>)	1
Greek 2 or French 2 and 4	3
English 2 (<i>English Prose Style</i>)	2

JUNIOR YEAR.

Latin 3, Greek 4, or German 1	3
Mathematics 6 (<i>Calculus and Astronomy</i>)	5
English 4 (<i>Chaucer to Milton</i>)	2
Political Economy	2
Logic and Neurology	2
Elective	2

SENIOR YEAR.

Latin 4, Greek 5, 6, or 8, or German 2 and 4	3
History 4, 5, 6, or 7	2
Psychology and Ethics	3
English 6 (<i>Philology</i>)	1
Elective	7

II. COURSE WITH MODERN LANGUAGES.

FRESHMAN YEAR.

Latin 1	3
French 1	3
Mathematics 1 (<i>Algebra</i>)	2
Mathematics 2 and 3 (<i>Geometry and Plane Trigonometry</i>)	3
English 1 (<i>Rhetoric and English Literature</i>)	3
Biology 1, Botany 1, or Zoölogy 1	3

SOPHOMORE YEAR.

	Hours per week.
Latin 2.....	3
French 2 and 4, or Spanish 1.....	3
English 2 (<i>English Prose Style</i>).....	2
History 2 (<i>General History</i>).....	3
History 3 (<i>English History</i>).....	1
Physics 1 (<i>General Physics</i>).....	5

JUNIOR YEAR.

English 3 (<i>Modern Poetry</i>).....	2
English 4 (<i>Chaucer to Milton</i>).....	2
German 1.....	3
French 3 or Spanish 1 or 2.....	3
Logic and Neurology or Astronomy... ..	2
Political Economy.....	2
Elective.....	3

SENIOR YEAR.

English 5 (<i>Anglo-Saxon and Middle English</i>).....	3
English 6 (<i>Philology</i>).....	1
German 2, 3, and 4.....	6
History 6 (<i>European History</i>).....	2
Elective.....	4

Students of energy and ability are advised to take Greek as an optional study.

II. COURSE WITH ANCIENT LANGUAGES.

FRESHMAN YEAR.

Latin 1.....	3
Greek 1.....	3
Mathematics 1 (<i>Algebra</i>).....	2
Mathematics 2 and 3 (<i>Geometry and Plane Trigonometry</i>).....	3
English 1 (<i>Rhetoric and English Literature</i>).....	3
Biology 1, Botany 1, or Zoölogy 1.....	3

SOPHOMORE YEAR.

Latin 2.....	3
Greek 2.....	3
English 2 (<i>English Prose Style</i>).....	2
History 2 (<i>General History</i>).....	3
History 3 (<i>English History</i>).....	1
Physics 1 (<i>General Physics</i>).....	5

JUNIOR YEAR.

	Hours per week.
Latin 3	3
Greek 3 and 4.....	4
English 4 (<i>Chaucer to Milton</i>).....	2
Logic and Neurology.....	2
Political Economy	2
Elective.....	3

SENIOR YEAR.

Latin 4, or Greek 5, 6, or 8	3
Psychology and Ethics.....	3
English 6 (<i>Philology</i>).....	1
Elective.....	9

IV. COURSE WITH HISTORY.

FRESHMAN YEAR.

Latin I.....	3
History I (<i>Constitutional History</i>).....	2
Mathematics I (<i>Algebra</i>).....	2
Mathematics 2 and 3 (<i>Geometry and Plane Trigonometry</i>).....	3
English I (<i>Rhetoric and English Literature</i>).....	3
Elective	4

SOPHOMORE YEAR.

Latin 2.....	3
History 2 (<i>General History</i>)	3
History 3 (<i>English History</i>).....	1
English 2 (<i>English Prose Style</i>).....	2
{ Chemistry 2 (<i>General Inorganic Chemistry</i>).....	3
{ or Physics I (<i>General Physics</i>).....	1
or Elective	5 or 3

JUNIOR YEAR.

History 4 (<i>Ancient History</i>)	2
Political Economy	2
English 4 (<i>Chaucer to Milton</i>).....	2
Logic and Neurology.....	2
Elective	8

SENIOR YEAR.

History 6 (<i>European History</i>).....	2
History 7 (<i>American History</i>).....	2
Psychology and Ethics.....	3
English 6 (<i>Philology</i>)... ..	1
Elective	8

General Physics, General Chemistry, or General Biology is required for all Seniors who have not passed in one of these branches.

Elective Studies—Any subjects mentioned in the B. A. or B. S. courses above, if not counted already; and, also the Elements of Mechanism and Electricity. Except as provided above, or by special act of the Faculty, elective studies, if counted for a degree, must be pursued at least one year each; German for two years.

All students in the College of Liberal Arts will, immediately after registration in the President's office, consult Professor Willis in Room 15. He has general supervision of their work, their examinations for admission, choice of courses, electives, etc.

THE NORMAL SCHOOL.

FACULTY.*

J. L. BUCHANAN, President.

J. F. HOWELL, History and Pedagogics.

A. E. MENKE and W. B. BENTLEY, Physics and Chemistry.

O. C. GRAY and G. W. DROKE, Mathematics.

JEROME MCNEILL and S. E. MEEK, Biology and Geology.

R. H. WILLIS and IDA PACE, English.

J. C. FUTRALL, Latin.

ELIAS CHANDLER, Military Science and Tactics.

JESSIE L. CRAVENS, Elocution.

REQUIREMENTS FOR ADMISSION.

(See Pages 35-38.)

*Normal Students must consult Professor Howell immediately after registration.

Section 6166 of the Revised Statutes of the State is as follows: "The State Superintendent of Public Instruction shall have power to grant State certificates, which shall be valid for life, unless revoked, to any person in the State who shall pass a thorough examination in all those branches required for granting county certificates, and also in algebra and geometry, physics, rhetoric, mental philosophy, history, Latin, the Constitution of the United States, and of the State of Arkansas, natural history, and the theory and art of teaching."

It will be observed that the course includes all the branches required for a State certificate in accordance with the law, and in addition, some other subjects with which a teacher should be familiar. After completing the Normal Course, students may take up in the Junior Class the work of any course for which they may be prepared, and compete for the corresponding degree.

Normal Course Leading to the Certificate of Licentiate of Instruction (L. I.)

FRESHMAN YEAR.

	Hours per week.
Latin 1	3
Mathematics 1 (<i>Algebra</i>)	2
Mathematics 2 and 3 (<i>Geometry and Trigonometry</i>)	3
Biology 1 (<i>General Biology</i>)	3
Pedagogy 1	2
English 1 (<i>Rhetoric and English Literature</i>)	3

SOPHOMORE YEAR.

Latin 2	3
Physics 1 (<i>General Physics</i>)	5
History 1 (<i>Constitutional History</i>)	2
History 2 (<i>General History</i>)	3
Pedagogics 2, 3, and 4	3

NOTE TO TEACHERS.—The attention of young teachers is called to the Department of History and Pedagogics on page 79, where it will be observed that instruction is offered in certain lines of pedagogics for periods of three months, thus giving them opportunity to spend their vacations here in such work as they may be competent to do. From March to June pedagogy, embracing elementary psychology, may be studied with the Freshman class, and school management with the Sophomore class. From June to September pedagogy may be studied with the Freshman, and history of education with the Sophomore class. From September to December pedagogy may be studied with the Freshman, and school law and history of education with the Sophomore class. In addition to this technical work, teachers will find superior advantages here in other branches of learning, should they desire to spend a vacation in fitting themselves for more thorough and higher work. Correspondence relative to the work of this department is cordially invited.

LIST OF NORMAL GRADUATES.

1875.

Botefuhr, Laura D.
Carson, Ann E.
Carson, Augusta O.
Davis, Lizzie P.
Gorton, Belle.
McCart, Eva.
McKinney, Charles F.
Moore, Lucy J.
Putnam, Anna.
Waggener, W. J.

1876.

Barnett, Nettie, B. L.
Neal, W. H., B. L.
Taylor, E. L., B. L.

1877.

Blakely, Nora, B. L.
Carden, E. B., B. L.
Mellette, W. M., B. L.
Patton, Allice, B. L.
Simms, W. D., B. L.
Waggener, Annie, B. L.

1887.

Hall, H. J., L. I.
Taff, J. H., L. I.

1888.

Southernland, J. W., L. I.

1889.

Condroy, W. F., L. I.
Core, Elias, L. I.
Reynolds, Mattie, L. I.

1890.

Galloway, Irene, L. I.
Holcombe, Cener, L. I.

1891.

Hamilton, W. J., L. I.

1893.

Dyer, Mallie, L. I. .

SCHOOL OF PHARMACY.

J. L. BUCHANAN, President.

A. E. MENKE and W. B. BENTLEY, Chemistry and Toxicology.

J. F. MCNEILL, Botany.

—————, Pharmacy and Materia Medica.

J. C. FUTRALL, Latin.

The State of Arkansas requires that all persons desiring to practice Pharmacy shall pass a thorough examination in the subject proper and all branches related thereto, before the State Board of Pharmacy. The State University has established a School of Pharmacy that offers the most thorough instruction in the theoretical and practical work required. The course is laid out not with a view to the minimum requirements of the State Board, but is designed so that any one completing it can pass the examination entitling to practice in any State. The laboratory facilities that are offered are superior to any School of Pharmacy in the Southwest. The course consists of two years of nine months each. The requirements for admission are a satisfactory knowledge of English grammar, rhetoric and composition, United States History, Geography, Arithmetic, Algebra through quadratics, Physiology (Martin's Human Body), Latin (Elementary grammar and composition). Students who have spent two years in a drug store may have part of the entrance examination omitted.

Course Leading to Certificate in Pharmacy.

FIRST YEAR.

	Hours per week.
Pharmacy I.....	3
Pharmacy 3.....	2
Chemistry 3.....	5
Botany I.....	3
Latin (preparatory).....	4

SECOND YEAR.

	Hours per week.
Pharmacy 2.....	5
Toxicology.....	2
Materia Medica.....	4
Chemistry 5a (first term only).....	3
Chemistry 5b	2

Pharmacy students will have the privilege of taking as electives any of the subjects taught in the University, if they are sufficiently advanced in the antecedent work required for the subject selected. They must consult Professor Menke immediately after registration.

GRADUATE COURSES AND DEGREES.

REQUIREMENTS FOR DEGREES OF C. E., M. E., OR E. E.

These courses of study are intended to more fully equip those students who have finished an undergraduate course in Engineering, for some special line of work for which their previous study has prepared them. The student will be given all possible liberty in selecting such specialties and will be limited only by certain general requirements. He will be required to make up at the beginning of the year the course which he proposes to follow and present it to the Faculty, approved by the instructors concerned. If accepted, it will be subject to change only by the Faculty. In general, it is expected that these courses shall comprise one principal subject based on the course already pursued and two secondary subjects, one or both of which should be closely related to the principal. The graduate course should amount to not less than fifteen recitation hours per week as counted in undergraduate work.

The subject of a thesis for any of the above degrees must be submitted to the Faculty for approval before the beginning of the third term.

These degrees will also be given after three years to those graduates in Civil, Mechanical, and Electrical Engineering who, having been in successful practice of their profession for that time, submit a satisfactory thesis on a subject approved by the Faculty.

REQUIREMENTS FOR THE MASTER'S DEGREE.

Applicants for the degree of M. A. or M. S. must have previously taken the Degree of B. A. or B. S. at this institution or at one having equal requirements. In addition they must take at the University, for a full scholastic year, not less than sixteen hours of recitations and lectures, as determined by the Faculty, and submit a satisfactory thesis.

Bachelors of Arts or of Science of this University may obtain the Master's degree without actual residence, but must complete the work mentioned above and pass satisfactory examinations upon it.

THE DEGREE OF DOCTOR OF PHILOSOPHY (PH. D.)

1. This degree will be conferred for distinguished attainments, as shown by examination and thesis, in any one of the five following subjects: Latin, Greek, German, French, English, and History, together with subordinate attainments in two others of the five; or for distinguished attainments in one principal and two subordinate, of the following sciences: Chemistry, Physics, Geology, Biology, Mathematics, Mechanics, Civil Engineering, and Electricity.

2. This degree shall be open to persons who have received the Degree of B. A. or B. S. at this institution, or at one having equal requirements. Ordinarily it will take three full years' study to complete the work required for this degree, and the last year or a longer time must be spent in resident study at this university.

3. A thesis of 4,000 words or more showing original research shall be required of every applicant, the subject of which shall be announced and passed upon by a committee of the Faculty at least one year before the time set for the final examination, and the thesis itself must be presented to the committee two months before admission to this examination. Twenty-five copies of the approved and printed thesis shall be placed in the University Library.

4. All applicants for this degree must, by the end of the first year of the course, be sufficiently conversant with French and German to read with ease any scientific work written in these languages.

Charges.—Graduate students pay \$10 for matriculation and registration, \$10 tuition (nonresidents \$5) at the beginning of each session, and \$10 in advance for the final examination. Students who fail to comply with any of these requirements, or who do not each year complete the equivalent of three terms' work in one subject, will be dropped from the rolls. Should such students desire to resume their studies, they must pay for matriculation and registration, as if beginning for the first time. The diploma fee is \$5 in advance in each case.

Graduates attending only undergraduate classes pay the same fees as undergraduates.

Nonresident students have such assistance and instruction in their studies as can be conveniently given by correspondence.

For graduate courses of study see pages 65, 66, 73, 74, 75, 76 and 78.

UNIVERSITY EXTENSION.

The purpose of University Extension is to give instruction to persons who are unable to attend the University, and who wish to devote a limited portion of their time to study and culture. It is especially helpful to those who have already begun collegiate courses of study, or have had good high school courses, but persons of ordinary general information may derive much benefit in this way.

In the past, the extension work of this University has been limited to occasional lectures, given by professors usually for schools, and to the professors' work in teachers' institutes and in farmers' institutes (see School of Agriculture); but now the officers of the University whose names are given below, hold themselves in readiness to give within the State courses of six lectures each at any conveniently accessible place, if consistent with their regular duties.

1. President Buchanan.....Agriculture.
2. Professor Menke (1) Water. (2) The Atmosphere.
3. Professor GrayDescriptive Astronomy with stereopticon views, or Mathematics and Astronomy.
4. Professor McNeill..... Entomology.
5. Professor Willis.....Burns, Coleridge, Scott, and Byron.
6. Professor Leverett.....Greek Literature.
7. Professor Howell.....The French Revolution.
8. Professor Futrall.....Roman Poetry, or the Influence of Rome on Modern Civilization.
9. Associate Professor Bentley....Some of the Fundamental Laws of Physics.
10. Associate Professor Droke.....Modern Pure Geometry.
11. Associate Professor Meek.....Geology, including Geology of Arkansas.
12. Associate Professor Knoch....The Value of Good Roads, and How to Obtain Them.
13. Associate Professor Gladson.....Theoretical and Applied Electricity.
14. Principal Dunn.....The History and Study of Language.

Printed synopses for each course will be sent in advance for all persons who pledge themselves to study the course, and who register for it with the local manager. With these synopses there will be references to good literature on the subject, and other information. In connection with the lectures there will be further explanation in conferences or quizzes; and all persons who have attended the lectures, have the privilege of being examined upon their work and of having their credits entered on the University records. Persons who have passed satisfactory examinations upon twelve extension courses of six lectures each, will receive a University extension certificate.

For a course of lectures no charge will be made beyond the expenses of the lecturer. This charge may be met by a small fee, paid in advance to the local manager, for each person attending the lectures.

Correspondence on the subject should be addressed to the president of the University.

SINGLE LECTURES FOR ARKANSAS COMMUNITIES.

Wishing to make the University a direct benefit to the largest possible number of the citizens of Arkansas, the faculty offer a number of single lectures free to schools in the State, to societies of a religious, scientific, or literary character, or to communities seeking general culture. In all cases the lecturer's expenses must be paid; but no further charge is made by the University, if the lecture is free to the public, or if the admission fee is merely a sum intended to cover the lecturer's expenses.

AIDS TO PRIVATE STUDY.

The University will do all in its power to aid and stimulate culture in every form; and references, advice, and any other help that may be practicable, will be cheerfully given

to citizens who wish to follow courses of reading, either special or general, or to make scientific investigations, or to acquire useful information of any kind. The farmers of Arkansas are especially invited to avail themselves of the valuable information to be had from the Agricultural Department of the University and from the Agricultural Experiment Stations located at Fayetteville, Newport, and Camden.

Communications sent to Fayetteville should be addressed to the Director of the Agricultural Experiment Station for agricultural matters; otherwise to the President of the University, who will refer them to the proper officers.

TEACHERS' NONRESIDENT COURSES.

The University offers special opportunities to all teachers in Arkansas. It will admit them to its regular examinations for admission to the Freshman class, or will send the examination questions to county examiners, who will submit them to teachers under usual rules and return answers to the University. Teachers who pass the required entrance examinations, may then matriculate and enter upon nonresident courses of study under direction of the University professors; and upon completion of one term's work in any branch, they will be examined upon said work and credited with it, if it comes up to the University standard.

After finishing three-fourths of the course for a bachelor's degree, such teacher-students may graduate by completing the course as regular resident students.

Nonresident study is pursued under disadvantages, and none but energetic and methodical persons, who are willing to practice much self-denial, can succeed in such work. Such courses of study are in many respects less thorough than study under regular instruction at the University. Yet thousands of persons who cannot attend college regularly, are thus educating themselves; and the self-reliant habits of

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study and investigation acquired by successful work of this kind are of untold value.

Teachers accepting this offer must obtain not less than two credits (two subjects passed for one term, or one subject for two terms), each year; else their names will be dropped from the rolls. Teachers whose vacation occurs during the session of the University, may supplement their nonresident study by attending the regular classes.

REGISTER OF STUDENTS.

ABBREVIATIONS:—Agrl., Agricultural; B. A., Bachelor of Arts; B. S., Bachelor of Science; C. E., Civil Engineering; E. E., Electrical Engineering; M. A., Master of Arts; M. E., Mechanical Engineering; M. S., Master of Science; Spec., Special; Irreg., Irregular.

GRADUATE STUDENTS.

NAME.	COURSE.	POST OFFICE.	COUNTY.
C. F. Armistead, B. A.....	M. A.....	Fort Smith.....	Sebastian.
L. R. Ash, B. C. E.....	E. E.....	Fayetteville.....	Washington.
Blanche Bibb, B. A.....	M. A.....	Fayetteville.....	Washington.
Hadge Davies, B. A.....	M. A.....	Staunton.....	Virginia.
C. H. Drake, B. C. E.....	Spec.....	Cincinnati.....	Washington.
Cener Holcombe, B. A.....	M. A.....	Muskogee.....	I. T.
Pearl Martin, B. S.....	M. S.....	Fayetteville.....	Washington.
J. H. Moore, B. S.....	Spec.....	Fayetteville.....	Washington.
A. W. Shreve, B. C. E.....	B. E. E.....	Farmington.....	Washington.
J. Vandeventer, B. S.....	Spec.....	Fayetteville.....	Washington.
Julia Vaulx, B. A.....	M. A.....	Aspen.....	Colorado.

SENIORS.

NAME.	COURSE.	POST OFFICE.	COUNTY.
L. R. Ash, B. C. E.....	E. E.....	Fayetteville.....	Washington.
J. C. Bell.....	B. A.....	Pontotoc.....	Mississippi.
E. H. Braly.....	B. A.....	Fayetteville.....	Washington.
Mallie Dyer.....	B. A.....	Prairie Grove.....	Washington.
C. J. Eld.....	C. E.....	Bentonville.....	Benton.
J. E. Gibson.....	M. E.....	Malvern.....	Hot Spring.
H. J. Hall.....	B. A.....	Waldron.....	Scott.
J. D. Head.....	B. A.....	Richmond.....	Little River.
R. B. Irvin.....	E. E.....	Little Rock.....	Pulaski.
Abbie Leverett.....	B. A.....	Fayetteville.....	Washington.
H. P. Mobberly.....	C. E.....	Illawara.....	Louisiana.
Lucy B. Mock.....	B. A.....	Prairie Grove.....	Washington.
E. L. Mock.....	B. A.....	Prairie Grove.....	Washington.
A. J. Myar.....	C. E.....	Little Rock.....	Pulaski.
R. T. Pittman.....	B. S.....	Fayetteville.....	Washington.
S. C. Treadwell.....	B. A.....	Toledo.....	Cleveland.

JUNIORS.

NAME.	COURSE.	POST OFFICE.	COUNTY.
Edna Allen	B. A	Farmington	Washington.
C. P. Barnett.....	E. E.....	Fayetteville	Washington.
Ida Barr.....	B. S	Fayetteville	Washington.
Mary Beattie	B. A	Fayetteville	Washington.
J. E. Beavers.....	C. E	Charleston	Franklin.
E. Boyd.....	B. A	Cooper	<i>Texas.</i>
Amanda Braly.....	B. S.....	Fayetteville	Washington.
Etta Braly	B. S.....	Fayetteville	Washington.
A. M. Brixey	B. A	Rogers	Benton.
J. L. Campbell.....	B. A	Greenwood.....	Sebastian.
C. Davies.....	B. A	Fayetteville	Washington.
Lila Davies	B. A	Fayetteville	Washington.
C. J. Drees.....	E. E.....	Little Rock.....	Pulaski.
D. B. Lipsey	B. S.....	Lonoke.....	Lonoke.
J. E. Martineau.....	B. A.....	Lonoke.....	Lonoke.
S. L. Morley.....	B. S	Fort Smith	Sebastian.
J. D. Nash.....	B. A	Waldo.....	Columbia.
Maud Nix.....	B. S.....	Fayetteville	Washington.
Mollie Remy.....	B. A.....	Mulberry	Franklin.
E. R. Robinson.....	B. A.....	Lonoke.....	Lonoke.
F. E. Rudolph.....	C. E.....	Galveston	<i>Texas.</i>
C. Russell.....	B. A.....	Russellville.....	Pope.
A. W. Shreve, B. C. E.....	E. E	Farmington	Washington.
Allie Simonds.....	B. S.....	Fayetteville	Washington.
A. V. Smith.....	M. E.....	Lanark	Bradley.
George Vaughan.....	B. A.....	Lockesburg	Sevier.
Kate Vaulx	B. A.....	Fayetteville	Washington.
Madge Vaulx.....	B. A.....	Fayetteville	Washington.
Jennie Williams	B. A.....	Fayetteville	Washington.
Norma Wood.....	B. A.....	Van Buren	Crawford.
W. H. Wood	M. E	Fayetteville	Washington.

SOPHOMORES.

NAME.	COURSE.	POST OFFICE.	COUNTY.
C. D. Adams.....	B. S.....	Fort Smith.....	Sebastian.
W. H. Askew	B. A.....	Magnolia	Columbia.
C. D. Bates.....	B. A.....	Van Buren	Crawford.
T. H. Batten.....	B. S.....	Eureka Springs.....	Carroll.
E. K. Braly.....	E. E.....	Fayetteville	Washington.
L. Campbell.....	B. A	Boonsboro	Washington.
A. B. Crozier.....	E. E.....	Fayetteville	Washington.
Ena Davies.....	B. S	Fayetteville	Washington.
J. H. Davis.....	E. E	Forrest City.. ..	St. Francis.
C. Duncan	B. S.....	Fayetteville	Washington.
F. P. Earle	B. S	Boonsboro	Washington.

NAME.	COURSE.	POST OFFICE.	COUNTY.
J. H. Godfrey	B. A	Pine Bluff.....	Jefferson.
Gertie Gunter.....	B. S.....	Fayetteville	Washington.
Lena Hardin.....	B. A	Van Buren	Crawford.
Nina Hardin.....	B. A.....	Van Buren.....	Crawford.
C. D. Head.....	B. A.....	Richmond	Little River.
J. W. Hicks.....	E. E.....	Magnolia ..	Columbia.
J. L. Hudspeth.....	B. A.....	Hamburg	Ashley.
Nellie Hunt.....	B. S.....	Fayetteville	Washington.
S. L. Jeffers.....	B. A	Ozark	Franklin.
J. M. Kelso.....	B. A	Magnolia	Columbia.
Rose Leverett.....	B. A.....	Fayetteville	Washington.
Storer Leverett.....	C. E.....	Fayetteville	Washington.
A. J. McDaniel.....	C. E	McDaniels	St. Francis.
D. McNeill.....	E. E	Fayetteville	Washington.
T. B. Martin.....	E. E.....	Little Rock.....	Pulaski.
R. S. Madearis.....	B. A.....	Cincinnati.....	Washington.
Fannie Mills.....	Normal.....	Little Rock.....	Pulaski.
Mary E. Mitchell.....	Normal.....	Texarkana	Miller.
E. E. Mobberly.....	E. E.....	Illawara	<i>Louisiana.</i>
J. L. Moore.....	E. E.....	Cincinnati.....	Washington.
D. C. Morrow.....	E. E.....	Fayetteville	Washington.
T. M. Norwood.....	Normal.....	Enola	Faulkner.
L. C. Nolan.....	B. A	Sub Rosa.....	Franklin.
Daisy Patterson.....	B. A	Springdale	Washington.
Kate Patterson	B. A.....	Springdale ..	Washington.
H. A. Patterson.....	B. A.....	Springdale	Washington.
A. B. Priddy.....	B. A	Magazine	Logan.
W. E. Pruett.....	C. E.....	Altus	Franklin.
E. L. Rodman.....	B. A.....	Altus	Franklin.
E. L. Spencer.....	B. A	Charleston	Franklin.
W. M. Spencer.....	M. E.....	Charleston	Franklin.
A. R. Spencer.....	B. S.....	Charleston	Franklin.
S. J. Taylor.....	E. E.....	La Grange	Lee.
B. H. Towery	Irreg.....	Texarkana	Miller.
N. G. Turner.....	B. A.....	Cypress.....	Phillips.
Ruby Washington.....	B. S.....	Fayetteville	Washington.
Hattie Williams.....	B. A.....	Fayetteville	Washington.

FRESHMEN.

NAME.	COURSE.	POST OFFICE.	COUNTY.
W. H. Abernathy.....	Agri.....	Warren.....	Bradley.
G. H. Askew.....	B. A	Magnolia	Columbia.
Hattie Babb.....	B. S.....	Boonsboro	Washington.
E. M. Baker.....	B. S.....	Witcherville.....	Sebastian.
F. Barr.....	Irreg.....	Fayetteville	Washington.
W. R. Buffington.....	B. A.....	College Hill.....	Columbia.

NAME.	COURSE.	POST OFFICE.	COUNTY.
E. W. Bumpass	E. E.....	Beebe	White.
Maude Buchanan	Normal.....	Boonsboro	Washington.
H. P. Buck	M. E.....	Sugar Grove.....	Logan.
Blanche Byars.....	Normal.....	Alma	Crawford.
C. G. Bray	Normal	Beverly.....	Sebastian.
A. W. Bevers	B. A.....	Hindsville	Madison.
W. T. Chamness.....	B. A.....	Center Ridge	Conway.
W. D. Chew.....	B. A.....	El Dorado.....	Union.
R. C. Clark	B. A.....	Hindsville	Madison.
S. L. Cookson.....	M. E.....	Fayetteville ..	Washington.
A. B. Cory.....	E. E.....	Fayetteville	Washington.
Mary Crawford.....	Normal.....	Boonsboro	Washington.
R. N. Cummings.....	B. A.	Hindsville	Madison.
Anna Dean	Normal.....	Fayetteville	Washington.
Maude Davis.....	B. A.....	Fayetteville	Washington.
Eleanor Duncan.....	B. A.....	Fayetteville	Washington.
J. D. Ferguson.....	B. A.....	Genoa	Miller.
W. M. Fishback.....	E. E.....	Fort Smith.....	Sebastian.
Charlotte Gallaway	B. A.....	Fayetteville	Washington.
H. W. Gates	B. S.....	Fayetteville	Washington.
J. H. Grimmett	B. A.....	Magnolia	Columbia.
J. M. Guilliams	Agri.....	Farmington	Washington.
T. L. Haynes	B. A.....	Cleveland	Conway.
J. D. Harkey	B. S.....	Russellville ..	Pope.
C. H. Henderson.....	B. A.....	Pocahontas.....	Randolph.
E. M. High.....	B. A.....	Lonoke	Lonoke.
T. R. Hill.....	B. A.....	Franklin	Izard.
S. B. Hill.....	B. A.....	Franklin	Izard.
Joe Belle Holcomb	B. A.....	Fayetteville	Washington.
J. R. Howard	E. E.....	Malvern	Hot Spring.
Carrie Howell	B. A.....	Fayetteville	Washington.
W. Howell	B. S.....	Fayetteville	Washington.
L. P. Jacobs.....	M. E.....	Mulberry	Franklin.
D. F. Johnson.....	B. A.....	Cauthron	Scott.
Mattie Kantz.....	B. A.....	Fayetteville	Washington.
Mary Kantz	B. A.....	Fayetteville	Washington.
Dorothy Lackey.....	B. A.....	Fayetteville	Washington.
Annie Lackey.....	B. A.....	Fayetteville ..	Washington.
H. Leach	E. E.....	Conway.....	Faulkner.
L. Lewis.....	B. A.....	Fayetteville	Washington.
A. C. Martineau	B. A.....	Lonoke	Lonoke.
W. P. Mason.....	B. A.....	Memphis ..	Tennessee.
May McNair	B. S.....	Fayetteville	Washington.
A. J. Moore.....	B. A.....	Cincinnati.....	Washington.
A. T. Moore.....	M. E.....	Cincinnati.....	Washington.
Martha Moore.....	B. S.....	Cincinnati.....	Washington.
G. Nicholls.....	B. A.....	Helena	Phillips.

NAME.	COURSE.	POST OFFICE.	COUNTY.
Ada Pace	B. A	Harrison	Boone.
R. E. Philbeck	B. A	Fayetteville	Washington.
T. T. Pile	B. A	Van Buren	Crawford.
B. V. Powell	B. S	Wild Oak	Ouachita.
Nellie Powell	B. S	Montreal	Sebastian.
L. R. Putman	M. E	Fayetteville	Washington.
Emily Read	Normal	Fayetteville	Washington.
H. H. Rightor	B. A	Helena	Phillips.
W. J. Rudolph	C. E	Fayetteville	Washington.
Addie Sellers	B. A	Perryville	Perry.
R. Shaha	B. A	Winslow	Washington.
Olive Silsby	B. A	Springdale	Washington.
T. W. Simpson	B. A	Franklin	Izard.
J. M. Simpson	Normal	El Dorado	Union.
J. E. Skelton	B. S	Fayetteville	Washington.
W. N. Smith	E. E	Haynes	Lee.
J. H. Snapp	C. E	Snapp's	Woodruff.
Mamie Spencer	B. A	Fayetteville	Washington.
I. F. Stewart	B. A	Springdale	Washington.
A. Stubblefield	Agri	Cassville	Missouri.
J. F. Summers	B. A	Forrest City	St. Francis.
Mattie Taylor	B. S	Fayetteville	Washington.
Rosa Taylor	B. A	Fayetteville	Washington.
Anna Thomasson	Normal	Odessa	Missouri.
B. W. Thomas	Normal	Fayetteville	Washington.
M. F. Treadwell	B. A	Pine Bluff	Jefferson.
Birdie Vaughan	Normal	Lockesburg	Sevier.
Stella Watkins	B. A	Fayetteville	Washington.
W. C. Ward	Normal	Mulberry	Franklin.
T. J. Wear	B. A	Paris	Logan.
F. B. Young	Irreg	Springdale	Washington.

SPECIAL.

NAME.	POST OFFICE.	COUNTY.
Fannie Botefuhr	Fayetteville	Washington.
C. H. Drake, B. C. E	Cincinnati	Washington.
O. Gates	Fayetteville	Washington.
Ethel Gray	Fayetteville	Washington.
Lyda Harrison	Fayetteville	Washington.
Eva Lea	Fayetteville	Washington.
B. C. McDearmon	Batesville	Independence
J. H. Moore, B. S	Fayetteville	Washington.
Effie Ostrander	Fayetteville	Washington.
Ellen Simonds	Fayetteville	Washington.
Mrs. Annie Stapp	Fayetteville	Washington.
Mattie Taylor	Fayetteville	Washington.
Mollie Vaughan	Fayetteville	Washington.

NAME.	POST OFFICE.	COUNTY.
J. Vandeventer, B. S.....	Fayetteville	Washington.
Eddie Wade	Fayetteville	Washington.
Mrs. A. D. Ward	Fayetteville	Washington.
E. L. Watson.....	Newport	Jackson.
Matie Williams.....	Fayetteville	Washington.
Gertie Smith.....	Fayetteville	Washington.
Margaret Kantz	Fayetteville	Washington.
Fannie Kemp.....	Fayetteville	Washington.
Grace Meigs	Siloam Springs.....	Benton.
Eugenia Wilson	Fayetteville	Washington.
Mary Grother.....	Fayetteville ..	Washington.

SUMMARY BY CLASSES.

Graduates.....	11
Seniors	16
Juniors	31
Sophomores	48
Freshmen.....	85
Special	24
Irregular.....	2
	—
Total	217
Counted twice.....	6
	—
	211

SUMMARY BY COURSES.

Master of Arts.....	5
Master of Science.....	1
Bachelor of Arts.....	91
Bachelor of Science.....	28
Bachelor of Civil Engineering ..	10
Bachelor of Electrical Engineering.....	23
Bachelor of Mechanical Engineering.....	9
Agricultural	3
Normal	14
Special	24
Irregular	3
	—
Total	211

ALUMNI ASSOCIATION.

The object of this association is to maintain the interest of the graduates in the institution and bring them into closer relation with the University. To this end all graduates are considered members. The association holds meetings annually during commencement week. The officers of the association for 1894 are:

J. N. TILLMAN, President.

MISS MATTIE PATTON, Secretary.

Committee on Banquet:

J. V. WALKER, G. W. DROKE, MRS. J. F. MAYES, MISS JESSIE CRAVENS.

Committee on Speaker:

J. F. MAYES,

DR. A. S. GREGG,

B. F. WOOD.

LIST OF ALUMNI.

Don C. B. Aiken, C. E., '89, Eng. Dep., Johnston Co., Johnstown, Pa.

L. S. Anderson, B. L. L., '84, Clerk in land office, Washington, D. C.

J. D. Arbuckle, B. A., '92, Principal Public Schools, Magazine, Ark.

C. F. Armistead, B. A., '93, Instructor in German, Fort Smith High School, Fort Smith, Ark.

L. R. Ash, C. E., '93, Student at Ark. Ind. University.

C. O. Bates, A. B., '83, Prof. of Chemistry, Coe College, Cedar Rapids, Ia.

J. H. Bates, B. A., '86, Lawyer, Corsicana, Tex.

Nettie Bennett, B. L., '76, Mrs. C. E. Boles, Fayetteville, Ark.

Blanche Bibb, B. A., '93, Fayetteville, Ark.

J. W. Black, B. A., '92, Law Student, University of Michigan.

W. J. Blackwell, B. C. E., '92, Engineer, Golden Lake, Ark.

Nora Blakely, A. B., '78, Mrs. H. M. Hudgins, Hot Springs, Ark.

W. P. Booth, A. B., '82, Farmer, Reyno, Ark.

Alice Borden, '77.

Laura D. Botefuhr, '75, Mrs. G. W. Schulte, Fort Smith, Ark.

Preston Bowles, B. C. E., '88, W. Va. Central R. R., Elkins, W. Va.

O. P. Brewer, B. S., '93, Webbers Falls, I. T.

W. D. Brown, A. B., '82, Physician, Newtonia, Mo.

H. M. Butler, A. B., '79, Real Estate Agent, Washington.

E. B. Corden, B. L., '77, Deceased.

Ella Carnall, A. M., '81, Associate Professor, A. I. U., Deceased.

- A. H. Carrigan, A. B., '82, Lawyer, Wichita Falls, Tex.
Ann E. Carson, '75, Mrs. Jno. Knight, Jonesboro, Ark.
Augusta O. Carson, '75, Mrs. T. W. Cline, Downey, Cal.
C. K. Chausler, A. B., '82, Lawyer, Grant's Pass, Oregon.
W. R. Cherry, A. B., '82, Bank Cashier, Paris, Tex.
Jessie Cravens, B. L. L., '83, Instructor in Elocution, Ark. Ind. University.
Wm. N. Crozier, B. A., '88, Missionary to China.
Lula Curry, B. S., '92, Mrs. G. L. Teller, Fayetteville, Ark.
Mike Danaher, B. A., '88, Lawyer, Little Rock, Ark.
Hadge Davies, B. A., '93, Instructor in Anglo-Saxon and English Literature,
Augusta Female Seminary, Staunton, Va.
Lizzie P. Davis, '75, Mrs. R. C. Brown, Florence, Arizona.
W. E. Dixon, B. A., '88, Teacher in Waldo, Ark.
C. H. Drake, B. C. E., '91, Cincinnati, Ark.
W. F. Drake, B. C. E., '88, Asst. State Geologist, Austin, Tex.
G. W. Droke, A. M., '80, Asso. Prof. of Mathematics, Ark. Ind. University.
W. H. Duncan, B. L. L., '84, Lawyer, Conway, Ark.
W. L. Edmiston, B. L. L., '84, Supt. Schools, Van Buren, Deceased.
F. W. Ellis, A. B., '81, U. S. Signal Service, Galveston, Tex.
W. W. England, A. B., '83, U. S. Coast Survey.
L. F. Fishback, B. S., '89, Lawyer, Wichita Falls, Tex.
J. C. Floyd, A. B., '79, Lawyer at Yellville, Ark.
W. M. Flynn, B. A., '88, Teacher.
J. R. Gannaway, B. A., '90, Warren, Ark.
D. A. Gales, A. B., '84, County Judge Desha Co., Arkansas City, Ark.
W. P. Goodwin, B. L. L., '84, Editor, El Dorado, Ark.
Belle L. Gorton, A. B., '76, Author, Chicago, Ill.
C. D. Greaves, A. B., '83, Lawyer, Hot Springs, Ark.
Alfred W. Gregg, A. B., '76, Deceased.
Andrew S. Gregg, A. B., '78, Physician, Fayetteville, Ark.
L. W. Gregg, A. B., '82, Lawyer, Fayetteville, Ark.
C. E. Hall, B. C. E., '93, Dardanelle, Ark.
W. J. Hamilton, B. A., '92, Prin. Public School, La Grange, Ark.
Agnes Harris, A. B., '76, Mrs. Johnson, Kansas City, Mo.
Sara E. Harris, A. B., '76, Mrs. S. H. Conrad, Osceola, Mo.
Grace Harrison, B. S., '89, Mrs. T. L. Brown, Greenwood, Ark.
J. H. Harrod, A. B., '79, Lawyer, Little Rock, Ark.
J. C. Hart, A. B., '85, Lawyer, Dardanelle, Ark.
F. L. Harvey, Ph. D., '90, Prof. Maine Agricultural College, Orono, Me.
J. T. Hawkins, '77, Physician, Mount Holly, Ark.
I. G. Hedrick, B. C. E., '92, Civil Engineer, Kansas City, Mo.
W. Rhodes Hervey, B. S., '90, Lawyer.
E. W. Hillis, B. L. L., '84, Lawyer, Jonesboro, Ark.
J. H. Hobbs, A. B., '88, Lawyer, San Antonio, Tex., Deceased.
Daniel Hon, A. B., '82, Lawyer, Waldron, Ark.
Cener Holcomb, B. A., '92, Teacher, Harrell Institute, Muskogee, I. T.
S. A. Horton, B. A., '91, Lawyer, Fairview, Ark.
J. W. Howell, B. L. L., '85, Cotton Buyer, Clarksville, Ark.

- J. H. Hudson, B. L. L., '84, Farmer, Dardanelle, Ark.
 G. A. Humphrey, A. B., '90, Medical Student, New York.
 Edgar Jennings, A. B., '77, Fayetteville, Ark.
 Gustave Jones, B. L. L., '82, Lawyer, Newport, Ark.
 Albert P. Johnson, A. B., '76, Lawyer, Winfield, Kan.
 T. M. Johnson, B. L. L., '88.
 G. H. Kimball, B. C. E., '92, Auditor of the D. & P. R. R., Dardanelle, Ark.
 Artelle Alice King, B. L. L., '80, Mrs. J. C. Belt, Brooken, I. T.
 E. B. Kinsworthy, B. L. L., '85, Attorney General of the State of Arkansas.
 T. B. Kitchens, A. M., '80, County and Circuit Clerk, Paragould, Ark.
 Ella Lake, B. L. L., '84, Viney Grove, Ark.
 W. H. Langford, A. B., '80, Merchant, Pine Bluff, Ark.
 J. A. M. Lanier, A. B., '82, Prin. Mountain Home Academy, Mountain Home, Ark.
 Mary Leverett, B. A., '86, Mrs. J. A. Taff, Washington, D. C.
 Eva McCart, '75, Mrs. D. M. Main, Cheney, Kan.
 J. B. McDorough, A. B., '82, Prosecuting Attorney, Twelfth Circuit, Fort Smith, Ark.
 W. R. McFarlane, A. B., '82, Lawyer, Greenwood, Ark.
 Chas. F. McKinney, '75, Traveling Salesman, Ozark, Ark.
 Jno. C. McNeeley, B. C. E., '89, Planter, Rackensack, Ark.
 S. E. Marrs, A. B., '79, Editor of The Democrat, Fayetteville, Ark.
 J. C. Marshall, A. M., '79, Lawyer at Little Rock, Ark.
 Mack Martin, B. M. E., '91, Asst. Supt. of Mech. Arts, A. I. U.
 Pearl Martin, B. S., '93, Student at A. I. U. Fayetteville, Ark.
 Collin Massie, A. B., '77, Prin. Public School, Van Buren, Ark.
 J. F. Mayes, A. B. '83, Lumber Dealer, Fayetteville, Ark.
 W. M. Mellette, B. L., '77, Lawyer, Fort Smith, Ark.
 Mai Middleton, A. B., '86, Mrs. R. Chasteen, Fort Smith, Ark.
 J. F. Moore, B. S., '93, Asst. Chemist, Agri. Exper. Sta., Fayetteville, Ark.
 J. H. Moore, B. S., '93, Student at Harvard University, Cambridge, Mass.
 J. I. Moore, A. B., '81, Lawyer, Helena, Ark.
 Lucy J. Moore, '75, Mrs. Ross, Cincinnati, Ark.
 Mattie M. Morrow, B. S., '90, Teacher in Public School, Fayetteville, Ark.
 Sara Mulholland, A. B., '86, Mrs. J. F. Mayes, Fayetteville, Ark.
 W. H. Neal, B. L., '76, Lawyer, Van Buren, Ark.
 A. J. Newman, B. A., '91, Teacher in Texas.
 E. P. Notrebe, '85, Springfield, Mo.
 T. F. Oats, A. B., '82, Physician in Mexico, Tex.
 Ora Obenshain, B. S., '89, Teacher in Public School, Eureka Springs, Ark.
 Ida Pace, B. A., '88, Asso. Prof. of English and Modern Languages, A. I. U.
 C. C. Patton, B. A., '91, Cincinnati, Ohio.
 L. Alice Patton, A. M., '79, Teacher, Prairie Grove, Ark.
 Mattie J. Patton, B. L. L., '80, Teacher, Prairie Grove, Ark.
 Thos. A. Pettigrew, A. M., '78, Lawyer, Charleston, Ark.
 Harry Pharr, B. C. E., '93, Civil Engineer on the levee, Golden Lake, Ark.
 J. S. Pharr, B. A., '92, Engineer.
 J. W. Pickel, A. B., '82, Physician for Crystal Plate Glass Co., Crystal City, Mo.

- Alice Polson, B. S., '88, Stenographer, St. Louis, Mo.
W. W. Powell, B. A., '88, Washington, D. C.
Anna Putman, A. M., '75, Teacher in Public School, Fayetteville, Ark.
G. W. M. Reed, Jr., B. L. L., '84, Lawyer, Los Angeles, Cal.
Lina Reed, A. B., '81, Teacher, Los Angeles, Cal.
Maggie Reed, A. B., '78, Deceased.
O. S. Rief, A. B., '81, Lawyer, Little Rock, Ark.
P. A. Rogers, A. B., '82.
T. C. Ross, A. B., '80, Lawyer, Fort Worth, Tex.
Lawrence Russell, A. B., '80, Lawyer, Russellville, Ark.
G. C. Schoff, B. C. E., '88, Civil Engineer, Philadelphia, Penn.
G. C. Shell, B. L. L., '82, Lawyer, Lake Village, Ark.
A. W. Shreve, B. C. E., '91, Farmington, Ark.
H. B. Shreve, B. C. E., '91, With Johnson & Co., Johnstown, Pa.
W. D. Simms, B. L., '77, Deceased.
G. V. Skelton, B. C. E., '91, Prof. of Civil Eng., Coe. College, Cedar Rapids, Ia.
Ida Slagle, B. A., '89, Mrs. Gilbreath, Hico, Ark.
Henry Stroup, A. B., '83, Editor, Roseville, Ark.
Wm. S. Sutton, A. M., '78, Supt. Schools, Houston, Tex.
Albert Taff, B. C. E., '90, Deceased.
J. L. Taff, A. B., '84, Prin. Public School, Austin, Tex.
Mary Taff, B. A., '89, Mrs. G. V. Skelton, Cedar Rapids, Ia.
Lou Taliaferro, B. L. L., '83, Stenographer, Chicago, Ill.
E. L. Taylor, B. L., '76, Bentonville, Ark.
C. V., Teague, A. B., '79, Prosecuting Attorney, Hot Springs, Ark.
B. J. Tillar, B. A., '86, Lawyer, Little Rock, Ark.
J. N. Tillman, B. L. L., '80, Prosecuting Attorney, Fayetteville, Ark.
Lee Treadwell, B. C. E., '88, Asst. Eng. for J. A. C. Waddell, Kansas City, Mo.
A. M. Vance, B. C. E., '93, Pierce City, Mo.
James Vandeventer, B. S., '93, Graduate Student, Ark. Ind. Univ.
S. F. Vault, B. A., '92, Memphis, Tenn.
Julia Vault, B. A., '92, Teacher Public School, Aspen, Col.
Annie Waggener, R. L., '77, Teacher in Public School, Del Norte, Col.
W. J. Waggener, A. M., '76, Prof. Nat. Philosophy, Univ. of Colorado, Boulder, Col.
J. V. Walker, A. B., '77, Lawyer, Fayetteville, Ark.
C. A. Watson, A. B., '77, Teacher, Fayetteville, Ark.
J. J. Watson, A. B., '81, Teacher, Australia.
G. A. Warren, B. L., '88, Physician, Little Rock, Ark.
J. N. Wheeler, B. A., '90, Merchant, Warren, Ark.
Naomi J. Williams, A. M., '80, Instructor in Ark. Ind. Univ.
A. C. Wood, B. M. E., '92, Civil Engineer, Philadelphia, Pa.
B. F. Wood, B. E. E., '93, Elect. Eng., Philadelphia, Pa.
C. D. Wood, A. B., '79, Associate Justice Supreme Court of Ark.
W. H. Woodall, A. B., '85, Pres. of Female College, Lake City, Fla.
C. D. Woolverton, B. L. L., '85, Prin. Schools, Sheridan, Ark.

PREPARATORY DEPARTMENT.

INSTRUCTORS.

B. J. DUNN, Principal, Instructor in Mathematics and Latin.
G. A. COLE, Instructor in Mathematics.
MARY E. WASHINGTON, Instructor in Geography and English.
NAOMI J. WILLIAMS, Instructor in Latin and History.
MRS. E. W. COLE, Instructor in History and Mathematics.
MARY DAVIS, Instructor in English.
JESSIE L. CRAVENS, Instructor in Elocution.
W. B. BENTLEY, Acting Instructor in Chemistry.
GEORGE W. DROKE, Acting Instructor in Mathematics.
S. E. MEEK, Acting Instructor in Physiology.
W. N. GLADSON, Acting Instructor in Drawing.
W. F. BATES, Instructor in Agriculture.
Belle WILSON, Instructor in Instrumental Music.
MRS. A. D. DAVIS, Instructor in Vocal Music.
F. P. NICHOLAS, Instructor in Woodworking.
G. W. BASHAW, Instructor in Foundry and Forging.
A. V. SMITH, Assistant in Mathematics.
MALLIE DYER, Assistant in English.
J. D. HEAD, Assistant in Latin.

The Preparatory Department is intended, first, to prepare students for any of the courses of study taught in the University; second, to furnish to those who cannot take a more extended course, as good a general education as the limited time will permit; third, to prepare teachers for the public grammar schools of the State. To secure these ends, three courses of study are offered.

REQUIREMENTS OF ADMISSION.

1. *Arithmetic*.—Students are examined in Wentworth's Grammar School Arithmetic through percentage, and an accurate knowledge of all this is rigidly required.

Teachers preparing pupils for admission should require them to learn principles and definitions accurately and to analyze every example capable of analysis, or should give them thorough drill in mental arithmetic. In 1896 the whole of arithmetic will be required.

2. *English Grammar*.—Harvey's Elementary Grammar and Composition, Part I., with analysis. In 1896 Maxwell's Elementary Grammar.

3. *Geography*.—The whole of some complete manual of Geography, such as Maury's or Harper's.

4. *Reading*.—Students must be able to understand and to read intelligently specimens from McGuffey's Fifth Reader or from some work equally advanced.

5. *Spelling*.—Of any words contained in McGuffey's Fifth Reader.

For expenses see page 33.

NOTE.—Candidates for second year, general course, will be examined in Arithmetic, Algebra to fractions, Harvey's Elementary Grammar, Part II.; History of the United States and of Arkansas, Descriptive Geography, and Latin (first seventy-five lessons in Jones's). In 1896, Tuell and Fowler's First Book in Latin.

Agricultural, scientific, and engineering students are exempt from the Latin examination, having one on Botany (in 1896, Physical Geography), and Bookkeeping instead. Students entering after the session has begun will be examined also on the work passed over by their class.

ORDER OF EXAMINATIONS FOR ADMISSION.

Tuesday, March 5, 9 a. m.: Registration of all students who are required to matriculate.

Wednesday, March 6, 9-12 m.: Registration of other students; 1-4 p. m.: Algebra, Geography.

Thursday, March 7, 9-12 m.: Arithmetic; 1-4 p. m.: Latin, History of Arkansas, Reading.

Friday, March 8, 9-11 a. m.: English Grammar; 11-12 m.: English Composition, Reading; 1-4 p. m.: United States History, General History, Reading.

DETAILED WORK OF THE COURSES.

SECOND YEAR.

Mathematics, 5.—First and second terms: Wentworth's High School Arithmetic, page 273 to end; Wentworth's Algebra, pages 130 to 260. Third term: Wentworth's Geometry, 4 books.

English, 4.—Raub's Rhetoric; four essays per term corrected and copied; Shakespeare's Julius Cæsar and Tempest and Scott's Ivanhoe.

Parallel Reading: Eggleston's Pocahontas; Cooke's Surrey of the Eagle's Nest; Franklin's Autobiography; Longfellow's Morituri Salutamus, and Voices of the Night; Campbell's Gertrude of Wyoming.

Latin, 4.—Four books of Cæsar (Harper and Tolman) or an equivalent; Gildersleeve's Grammar; Jones's Lessons completed.

History, 3.—Barnes's General History.

Physiology, 2.—Martin's Human Body, Briefer Course, with experiments.

Chemistry, twice a week.—William's Introduction to Chemical Science; lectures and written work.

Civil Government, 1.—Peterman's Civil Government and Johnson's History of American Politics.

Founding, 4.—Moulding; melting and pouring brass and iron; management of cupola. Bollard's Iron Founding; lectures and practice.

Elementary Dairy Husbandry.—The primary principles of dairy work are taught by class-room instruction, accompanied with daily practical work in the dairy.

Forging, 4.—Management of fire; drawing; welding; riveting; tempering. Lectures and practice.

Mechanical Drawing, 2.—Drawings of machine parts; lettering; line shading, etc.

FIRST YEAR.

Mathematics, 5.—Wentworth's High School Arithmetic, page 120 to page 273; Wentworth's Algebra to page 130.

English, 4.—First term: Maxwell's Advanced Grammar; Irving's Alhambra and Kingsley's Greek Heroes; three original essays per term, corrected and copied.

Parallel Reading.—Cooper's Spy, and Red Rover; Longfellow's Evangeline; Whittier's Lexington and Yorktown; Shakespeare's Comedy of Errors; lives of the above authors.

Latin, 4.—Tuell and Fowler's First Book in Latin.

History, 3.—Chambers' United States History and Hempstead's History of Arkansas.

Physical Geography, 3.—Maury's Physical Geography.

Bookkeeping.—Messervey's Bookkeeping.

Woodworking, 8.—Principles of carpentry and joinery; wood turning; pattern making; cabinet work. Sickel's Exercises in Woodworking.

Elementary Agriculture.—The reasons for the various farm operations, and the conditions under which they can be most successfully accomplished form the subject matter of the instruction.

Freehand Drawing, 2.—Practice work; outline drawing from models and machine parts; plans, elevations, sections, dimensions, etc.

AGRICULTURAL COURSE.

This course prepares students for the School of Agriculture.

FIRST YEAR.	Hours per week.	SECOND YEAR.	Hours per week.
Mathematics	5	Mathematics	5
English	4	English	4
History	3	History	3
Physical Geography.....	3	Chemistry	2
Agriculture	2	Physiology	2
Farm or Shop Work	4	Agriculture	2
		Farm or Shop Work	4

ENGINEERING AND MECHANIC ARTS COURSE.

FIRST YEAR.	Hours per week.	SECOND YEAR.	Hours per week.
Mathematics	5	Mathematics	5
English	4	English	4
History	3	History	3
Bookkeeping.....	1	Civil Government.....	1
Drawing.....	1	Physiology	2
Woodworking	4	Drawing.....	1
		Founding.....	2
		Forging	2

NOTE.—Candidates for admission to the Freshmen Class in the College of Mechanic Arts and Engineering will be examined in all the subjects required for admission to the University, except Latin.

GENERAL COURSE.

This course prepares students for the College of Liberal Arts or the College of Science or for the Normal School. It gives a limited general education to students who cannot take a collegiate education.

FIRST YEAR.	Hours per week.	SECOND YEAR.	Hours per week.
Mathematics	5	English	4
English	4	History	3
History	3	Physiology	2
Latin	4	Latin	4
		Mathematics	5

NOTE.—If a student is preparing to enter the College of Science, he may substitute Bookkeeping and Physical Geography for first Latin, and Chemistry and Agriculture (or Civil Government) for second Latin.

Special courses of study are not allowed in the Preparatory Department, but students known to be in poor health or having physical defects which interfere with their studies, are sometimes permitted by the faculty to defer one or more subjects of study and extend the course over a longer period.

Students who have at any time been enrolled in the Preparatory Department, must complete all the studies in one of its courses before dropping preparatory work; and studies in lower classes have precedence over higher ones. A student in the Preparatory Department is a member of the highest class with which he has as many as eight recitations per week.

PREPARATORY STUDENTS.

ABBREVIATIONS: A., Agricultural; G., General; E., Engineering.

SECOND YEAR.

NAME.	COURSE.	POST OFFICE.	COUNTY.
E. B. Addisson.....	A.....	Mt. Vernon.....	Faulkner.
Gertrude Ash.....	G.....	Fayetteville.....	Washington.
W. E. Ayers.....	E.....	Osceola.....	Mississippi.
L. W. Baker.....	A.....	Snowball.....	Searcy.
N. A. Baker.....	E.....	Snowball.....	Searcy.
Minnie Baker.....	G.....	Witcherville.....	Sebastian.
Ada Baldwin.....	G.....	Mansfield.....	Sebastian.
Kate Barry.....	G.....	Fayetteville.....	Washington.
J. M. Baum.....	G.....	Fayetteville.....	Washington.
J. L. Bean.....	G.....	Boonsboro.....	Washington.
L. L. Beavers.....	E.....	Waldron.....	Scott.
Lillian Bibb.....	G.....	Fayetteville.....	Washington.
E. W. Bray.....	E.....	Beverly.....	Sebastian.
Eva Broadrick.....	G.....	Fayetteville.....	Washington.
Florence Buchanan.....	G.....	Boonsboro.....	Washington.
Grace P. Buchanan.....	G.....	Fayetteville.....	Washington.
T. F. Buttram.....	G.....	Brightwater.....	Benton.
E. Carney.....	A.....	Prairie Grove.....	Washington.
J. B. Cawood.....	E.....	Osage Mills.....	Benton.
C. H. Chastain.....	G.....	Bentonville.....	Benton.
C. A. Chasteen.....	G.....	Fayetteville.....	Washington.
Nellie Clancy.....	G.....	Fayetteville.....	Washington.
P. Clayton.....	E.....	Eureka Springs.....	Carroll.
C. D. Coffey.....	G.....	Fayetteville.....	Washington.
C. E. Cole.....	E.....	Dardanelle.....	Yell.
Lilly Cole.....	G.....	Dardanelle.....	Yell.
Lizzie Cole.....	G.....	Dardanelle.....	Yell.
Mattie Cole.....	G.....	Boonsboro.....	Washington.
Agnes Conner.....	G.....	Fayetteville.....	Washington.
H. J. Cory.....	A.....	Robinson.....	Benton.
H. W. Cravens.....	G.....	Hartman.....	Johnson.
Merle Curry.....	G.....	Fayetteville.....	Washington.
E. R. Curry.....	E.....	Fayetteville.....	Washington.
E. W. Curry.....	E.....	Fayetteville.....	Washington.
Fannie Davenport.....	G.....	Fayetteville.....	Washington.

NAME.	COURSE.	POST OFFICE.	COUNTY.
Bertha Deaver.....	G.....	Springdale	Washington.
D. E. Dean.....	A.....	Fayetteville	Washington.
Maud Easterly.....	G.....	Fayetteville	Washington.
Miggie Ellis.....	G.....	Fayetteville	Washington.
Sallie Evins.....	G.....	Fayetteville	Washington.
H. Y. Fishback.....	E.....	Fort Smith.....	Sebastian.
C. S. Fitzpatrick.....	G.....	Helena	Phillips.
C. D. Frierson.....	G.....	Jonesboro	Craighead.
Lettie Gaskell.....	G.....	Fayetteville	Washington.
Estelle Gee.....	G.....	Fayetteville	Washington.
A. S. Hagood.....	G.....	Boonsboro	Washington.
Minnie Hagood.....	G.....	Boonsboro	Washington.
Hattie Hall.....	G.....	Cauthron.....	Scott.
Kate Hardin.....	G.....	Fayetteville	Washington.
Josie Harris.....	G.....	Fayetteville	Washington.
C. Head.....	E.....	Richmond	Little River.
J. F. Hight.....	G.....	Wesley	Madison.
Lola Hill.....	G.....	Winslow	Washington.
E. Hinman.....	E.....	Wade	Missouri.
L. H. Ingraham.....	G.....	Lavaca	Sebastian.
D. Jones.....	E.....	Fayetteville	Washington.
T. F. Jones.....	E.....	Fayetteville	Washington.
R. A. Jones.....	A.....	Three Creeks.....	Union.
R. C. Jones.....	E.....	Three Creeks.....	Union.
Bessie Kell.....	G.....	Fayetteville	Washington.
T. M. Kelly.....	E.....	Brinkley	Monroe.
N. D. Kimbrough.....	G.....	Van Buren.....	Crawford.
F. B. Kirby.....	G.....	Harrison.....	Boone.
Emma Lamb.....	G.....	Poplar Grove.....	Phillips.
Ida Lawshe.....	G.....	Fayetteville	Washington.
Linn Lewis.....	G.....	Fayetteville	Washington.
S. O. Lewis.....	G.....	Calhoun	Columbia.
C. W. Lindsay.....	G.....	Little Rock.....	Pulaski.
Marguerite Long.....	G.....	Fayetteville	Washington.
Hettie Lowe.....	G.....	Fayetteville	Washington.
Lula Luther.....	G.....	Fayetteville	Washington.
C. B. Lyle.....	G.....	Magnolia	Columbia.
J. B. Macey.....	E.....	Viney Grove.....	Washington.
J. E. Malone.....	G.....	Hackett	Sebastian.
Cora Mayes.....	G.....	Fayetteville	Washington.
Pauline Mayes.....	G.....	Fayetteville	Washington.
Mary May.....	G.....	Fayetteville	Washington.
Carrie McClanahan.....	G.....	Fayetteville	Washington.
W. T. McClanahan.....	E.....	Fayetteville	Washington.
P. J. McClure.....	G.....	Slatonville	Sebastian.
Kate McIlroy.....	G.....	Fayetteville	Washington.
G. J. McNew.....	E.....	Panola.....	Lonoke.

NAME.	COURSE.	POST OFFICE.	COUNTY.
E. McPhetridge	G	Dallas	Polk.
H. A. Melton	E	Fayetteville	Washington.
Amanda Moore	G	Fayetteville	Washington.
H. D. Moore	G	Helena	Phillips.
F. N. Moore	E	Cincinnati	Washington.
Mamie Mooring	G	Fayetteville	Washington.
Agnes Morrow	G	Cincinnati	Washington.
Cordia Morrow	G	Cincinnati	Washington.
J. A. Morrow	E	Hubbard	Washington.
Lulu Morrow	G	Fayetteville	Washington.
M. Murfee	E	Fayetteville	Washington.
P. Norman	G	Seba	Benton.
Maud Obenshain	G	Eureka Springs	Carroll.
May Obenshain	G	Eureka Springs	Carroll.
Bessie Olliver	G	Fayetteville	Washington.
Kate Olliver	G	Fayetteville	Washington.
O. J. Owens	G	Fayetteville	Washington.
Kate Pace	G	Harrison	Boone.
D. G. Payne	E	Monticello	Drew.
Nellie Pettigrew	G	Fayetteville	Washington.
J. A. Pierce	G	Yellville	Marion.
Electa Piercy	G	Beebe	White.
May Polson	G	Viney Grove	Washington.
G. Pond	G	Fayetteville	Washington.
J. O. Porter	E	Highland	Sharp.
R. C. Prewitt	E	Osceola	Mississippi.
Celeste Pugh	G	Bentonville	Benton.
Cynthia Pugh	G	Bentonville	Benton.
Lizzie Purdy	G	Fayetteville	Washington.
C. D. Rainwater	G	Camden	Ouachita.
R. E. Rogers	A	Siloam Springs	Benton.
Lucy Ross	G	Boonsboro	Washington.
Florence Rosser	G	Fayetteville	Washington.
Kate Sappington	G	Clarkesburg	Missouri.
R. L. Saxon	E	Smackover	Union.
A. C. Seawel	G	Yellville	Marion.
W. L. Seawel	E	Yellville	Marion.
Florence Severs	G	Muskogee	Indian Ter.
J. Seymore	E	Kingsland	Cleveland.
Dora Shanon	G	Fayetteville	Washington.
J. A. Skillern	G	Fayetteville	Washington.
Nellie Stanford	G	Fayetteville	Washington.
J. F. Stanford	G	Fayetteville	Washington.
May Stone	G	Fayetteville	Washington.
H. G. Taylor	E	Beebe	White.
A. S. Thompson	A	Boonsboro	Washington.
Eva Thompson	G	Greenwood	Kansas.

NAME.	COURSE.	POST OFFICE.	COUNTY.
J. E. Thurman.....	E.....	Fayetteville	Washington.
J. W. Thurman.....	E.....	Fayetteville	Washington.
Sarah Thurman	G.....	Fayetteville	Washington.
Clara Tilley.....	G.....	Fayetteville	Washington.
Mary Tilley.....	G.....	Fayetteville	Washington.
T. T. Varner	G.....	Fayetteville	Washington.
E. S. Vedder.....	E.....	Fayetteville	Washington.
Jeane Vincenheller.....	G.....	Little Rock.....	Pulaski.
J. S. Wade.....	E.....	Fayetteville	Washington.
S. A. Warner.....	G.....	Jonesboro	Craighead.
J. L. Warren.....	G.....	Buckner	Columbia.
Winona Wiley.....	G.....	Fayetteville	Washington.
Georgia Williams.....	G.....	Fayetteville	Washington.
Ione Williams.....	G.....	Fayetteville	Washington.
F. E. Wilson	E.....	Prairie Grove.....	Washington.
J. M. York	E.....	Prairie Grove.....	Washington.

FIRST YEAR.

NAME.	COURSE.	POST OFFICE.	COUNTY.
R. Algire.....	E.....	Fayetteville	Washington.
W. B. Armstrong.....	G.....	El Dorado.....	Union.
T. B. Arnn.....	A.....	Sidney.....	Sharp.
T. P. Atkinson.....	E.....	Fordyce.....	Dallas.
H. C. Barnes	E.....	Charleston.....	Franklin.
Madge Bates	G.....	Fayetteville	Washington.
J. C. Bell.....	E.....	Fayetteville	Washington.
W. K. Bell.....	G.....	Greenwood	Sebastian.
Hattie Bell	G.....	Fayetteville	Washington.
J. I. Blair.....	E.....	Fayetteville	Washington.
G. B. Bolton.....	A.....	Plymouth.....	Franklin.
G. Bourland.....	G.....	Little Rock.....	Pulaski.
A. L. Bowers.....	G.....	Panola.....	Lonoke.
E. T. Brown.....	A.....	Sweet Home	Pulaski.
J. A. Brown.....	A.....	Sweet Home	Pulaski.
Mary Brown.....	G.....	Fayetteville	Washington.
J. H. Buttram.....	G.....	Brightwater	Benton.
Mary Buttram	G.....	Brightwater	Benton.
F. W. Byars.....	E.....	Alma	Crawford.
Bessie Byrnes	G.....	Fayetteville	Washington.
Nellie Byrnes	G.....	Fayetteville	Washington.
Effie Campbell.....	G.....	Fayetteville	Washington.
L. R. Campbell	G.....	Van Buren.....	Crawford.
G. B. Carruth.....	A.....	Fayetteville	Washington.
J. W. Carter.....	A.....	Durham	Washington.
E. Cato.....	A.....	Fayetteville	Washington.
B. C. Chamness	E.....	Center Ridge.....	Conway.

NAME.	COURSE.	POST OFFICE.	COUNTY.
Alberta Chapman	G.....	Fayetteville	Washington.
W. H. Chapman	G.....	Fayetteville	Washington.
Melva Chapman	G.....	Fayetteville	Washington.
W. Clancy	E.....	Fayetteville	Washington.
F. L. Clark	G.....	West Fork	Washington.
Gertie Clay	G.....	Fayetteville	Washington.
J. L. Clendenin	G.....	Harrison	Boone.
A. E. Collier	E.....	.....	Washington.
N. R. Collins	E.....	Huntington	Sebastian.
Birdie Conner	G.....	Fayetteville	Washington.
Ethel Conner	G.....	Fayetteville	Washington.
G. Cox	G.....	Fayetteville	Washington.
J. L. Crenshaw	G.....	Fayetteville	Washington.
S. J. Crossno	G.....	Etna	Franklin.
C. S. Curry	E.....	Clinton	Van Buren.
R. H. Dark	A.....	Hardy	Sharp.
J. R. Denty	E.....	Donaldson	Hot Spring.
J. M. Dixon	A.....	Sweet Home	Pulaski.
E. Dowell	A.....	Fayetteville	Washington.
Pearl Dowell	G.....	Fayetteville	Washington.
J. L. Drake	E.....	Hope	Hempstead.
Effie Driver	G.....	Fayetteville	Washington.
C. R. Dumas	A.....	Lisbon	Union.
Nannie Eads	G.....	Harris	Washington.
R. Easley	E.....	Donaldson	Hot Spring.
Bessie Eason	G.....	Fayetteville	Washington.
Eva Eason	G.....	Fayetteville	Washington.
J. Easterly	A.....	Fayetteville	Washington.
Gertrude Ellis	G.....	Fayetteville	Washington.
H. C. Evins	E.....	Fayetteville	Washington.
W. M. Evins	E.....	Fayetteville	Washington.
J. E. Felker	G.....	Rogers	Benton.
J. A. Floyd	E.....	Malvern	Hot Spring.
W. S. Foushee	E.....	Newport	Jackson.
W. E. George	G.....	Berryville	Carroll.
M. Gibbs	E.....	Malvern	Hot Spring.
W. L. Goodwin	G.....	El Dorado	Union.
O. Grimes	E.....	Blue Ridge	Texas.
Florence Hamilton	G.....	Fayetteville	Washington.
D. C. Hamilton	E.....	Carthage	Missouri.
T. E. Harrison	E.....	Fayetteville	Washington.
L. C. Hayes	G.....	Webbers Falls	Indian Ter.
W. W. Haydon	E.....	Springfield	Missouri.
Della Hedrick	G.....	Fayetteville	Washington.
S. C. Henderson	G.....	Fayetteville	Washington.
H. B. Hill	E.....	Fayetteville	Washington.
T. Holmes	G.....	Selma	Drew.

NAME.	COURSE.	POTT OFFICE.	COUNTY.
J. L. Hornor	G	Helena	Phillips.
E. Howell	G	Fayetteville	Washington.
H. Hunt	E	Fayetteville	Washington.
M. M. Hust	G	Bentonville	Benton.
W. Hynes	G	Van Buren	Crawford.
W. F. Jackson	G	Berryville	Carroll.
M. D. Johnson	G	Pine Bluff	Jefferson.
B. R. Johnson	A	Mountainway	Crawford.
A. L. Jones	A	Hartman	Johnson.
J. H. Jones	G	Hartman	Johnson.
Mattie Justice	G	Ponca Agency	Oklahoma T.
J. H. Keel	G	Newport	Jackson.
R. Kobel	E	Mulberry	Franklin.
E. V. Leverett	E	Fayetteville	Washington.
Annie Lewis	G	Springdale	Washington.
C. B. Lininger	G	Springdale	Washington.
Todd Lowry	G	Fayetteville	Washington.
C. H. Luther	E	Fayetteville	Washington.
C. Marcheselli	G	Fayetteville	Washington.
J. A. Martin	G	Fayetteville	Washington.
R. F. Mathews	E	Fayetteville	Washington.
J. A. McAndrews	G	Fayetteville	Washington.
R. H. McAndrews	G	Fayetteville	Washington.
B. T. McClure	G	Cameron	Indian Ter.
W. L. McPherson	G	Fayetteville	Washington.
E. Mook	E	Helena	Phillips.
Corrinne Moore	G	Rogers	Benton.
L. R. Moore	G	Fayetteville	Washington.
J. W. Morgan	E	Fayetteville	Washington.
Terry Morrow	G	Hubbard	Washington.
A. L. Mount	A	Fayetteville	Washington.
Lila Mount	G	Fayetteville	Washington.
M. Munn	A	Bodcaw	Nevada.
H. A. Newton	G	Clarksville	Johnson.
E. A. Nickels	G	Lawrence	Garland
R. E. Nix	A	Fayetteville	Washington.
A. G. Olliver	E	Lee's Creek	Crawford.
F. Parish	G	Newport	Jackson.
Bessie Parks	G	Boonsboro	Washington.
G. G. Pettigrew	E	Fayetteville	Washington.
Lillian Pettigrew	G	Fayetteville	Washington.
Mabel Phillips	G	Springdale	Washington.
J. M. Portnell	E	Fayetteville	Washington.
W. W. Powell	G	Fayetteville	Washington.
D. Quilling	G	Pendleton	Desha.
W. Rattenbury	G	Fayetteville	Washington.
F. H. Rice	E	Devalls Bluff	Prairie.

NAME.	COURSE.	POST OFFICE.	COUNTY.
R. C. Roane	G	Pine Bluff	Jefferson.
May Robinson	G	Fayetteville	Washington.
Pearl Robinson	G	Fayetteville	Washington.
J. W. Rogers	G	Luxembourge	Mississippi.
T. H. Rogers	G	Dublin	Logan.
J. T. Rosser	G	Fayetteville	Washington.
Delia Samuelson	G	Fayetteville	Washington.
Olive Scott	G	Fayetteville	Washington.
F. W. Scherbel	G	Pierce City	Missouri.
J. G. Shannon	G	Fayetteville	Washington.
W. C. Shelton	A	Bloomer	Sebastian.
R. U. Shores	G	Webb City	Franklin.
T. F. Skelton	E	Fayetteville	Washington.
H. C. Smeltzer	G	Van Buren	Crawford.
Gertie Smith	G	Fayetteville	Washington.
W. H. Smith	G	Alma	Crawford.
P. T. Staggs	E	Hope	Hempstead.
S. K. Stone	G	Fayetteville	Washington.
R. A. Summers	G	Fayetteville	Washington.
Laura Taff	G	Fayetteville	Washington.
E. L. Talley	A	Fayetteville	Washington.
T. G. Taylor	E	Fayetteville	Washington.
S. R. Thach	E	Russellville	Pope.
D. Tharp	A	Fayetteville	Washington.
C. K. Thomas	E	Fayetteville	Washington.
Demmie Thomason	G	Fayetteville	Washington.
Ada Tilley	G	Fayetteville	Washington.
F. A. Tolle	G	Fayetteville	Washington.
P. G. Traylor	E	Ashdown	Little River.
P. M. Tygart	G	Prairie View	Logan.
Edith Usry	G	Fayetteville	Washington.
P. W. Usry	E	Fayetteville	Washington.
Geraldine Vandeventer	G	Fayetteville	Washington.
A. Vincenheller	G	Little Rock	Pulaski.
L. A. Wade	A	Fayetteville	Washington.
Eran Walker	G	Fayetteville	Washington.
J. F. Walker	E	Beebe	White.
O. J. Walker	E	Searcy	White.
Annie Warren	G	Buckner	Columbia.
J. A. Wasson	G	Calamine	Sharp.
R. T. Westbrook	E	Beebe	White.
Pearl Wiley	G	Fayetteville	Washington.
Clara Williams	G	Elkins	Washington.
J. L. Williams	E	Cincinnati	Washington.
Italyne White	G	Fayetteville	Washington.
T. C. White	G	Fayetteville	Washington.
Cora Wood	G	Fayetteville	Washington.

NAME.	COURSE.	POST OFFICE.	COUNTY.
Nora Wood.....	G.....	Harris.....	Washington.
J. P. Wooten.....	G.....	Russellville.....	Pope.
W. O. Wozencraft.....	A.....	Holly Springs.....	Dallas.
T. R. Wright.....	G.....	Glenville.....	Nevada.
W. L. Wright.....	E.....	Catcher.....	Crawford.

IRREGULAR.

NAME.	POST OFFICE.	COUNTY.
E. C. Ambrose.....	Fayetteville.....	Washington.
J. M. Andrews.....	Fayetteville.....	Washington.
J. Bagget.....	Springdale.....	Washington.
H. C. Baldwin.....	Mansfield.....	Sebastian.
F. P. Blair.....	Fayetteville.....	Washington.
Lillie Blackmer.....	Fayetteville.....	Washington.
D. Bourland.....	Little Rock.....	Pulaski.
J. A. Boyd.....	Fort Smith.....	Sebastian.
R. Boyd.....	Huntington.....	Sebastian.
Mollie Bradley.....	Burnville.....	Sebastian.
J. C. Braswell.....	Donaldson.....	Hot Spring.
F. E. Buchanan.....	Fayetteville.....	Washington.
W. H. Buchanan.....	Gumlog.....	Pope.
B. Busby.....	Coldwater.....	Mississippi.
Sallie Cooper.....	Fayetteville.....	Washington.
C. C. Curry.....	Fayetteville.....	Washington.
J. Clayton.....	Eureka Springs.....	Carroll.
C. G. Cole.....	Boonsboro.....	Washington.
Mary Cole.....	Boonsboro.....	Washington.
E. Coolidge.....	Helena.....	Phillips.
W. Coolidge.....	Helena.....	Phillips.
Lolena Degen.....		Sebastian.
W. M. Douglas.....	Helena.....	Phillips.
Anna Duncan.....	Fayetteville.....	Washington.
J. L. Dunn.....	Fayetteville.....	Washington.
J. M. Edwards.....	Graphic.....	Crawford.
C. Gillam.....	Helena.....	Phillips.
A. L. Grady.....	Helena.....	Phillips.
W. G. Hight.....	Fayetteville.....	Washington.
Ethel Hill.....	Fayetteville.....	Washington.
L. F. Horne.....	Fayetteville.....	Washington.
T. S. Hornor.....	Carmel.....	Chicot.
J. A. Hornor.....	Helena.....	Phillips.
J. Hynum.....		Sebastian.
F. D. James.....	Fayetteville.....	Washington.
J. A. Jones.....	Atkins.....	Pope.
Nora Jones.....	Fayetteville.....	Washington.
F. Johnston.....	Arrego.....	California.

NAME.	POST OFFICE.	COUNTY.
F. Kantz	Fayetteville	Washington.
Maude Kantz	Fayetteville	Washington.
E. L. Kistler	Van Buren	Crawford.
G. T. Ladd	Fayetteville	Washington.
Horton Lake	Fayetteville	Washington.
Lelia Lawson	Wesley	Madison.
G. G. Lewis	Des Arc	Prairie.
J. W. Luckenbill	Riverside	Woodruff.
Bertha Mann	Winslow	Washington.
Lulu Mason	Forrest City	St. Francis.
Mary Mason	Forrest City	St. Francis.
M. McAbee	Charleston	Franklin.
E. C. McBee	McBee Landing	Marion.
J. L. McNeill	Fayetteville	Washington.
Grace McPherson	Fayetteville	Washington.
W. R. Mitchell	Eulogy	<i>Texas.</i>
Dora Monroe	Fayetteville	Washington.
G. C. Moore	Fayetteville	Washington.
Mabel Mough	Fayetteville	Washington.
A. Nash	Fayetteville	Washington.
Frankie Nash	Fayetteville	Washington.
Mable Nichols	Joplin	<i>Missouri.</i>
W. S. Norman	Fayetteville	Washington.
Cora Oliver	Fayetteville	Washington.
A. D. Orcutt	Oakland	Marion.
Bessie Payne	Fayetteville	Washington.
G. D. Pettigrew	Fayetteville	Washington.
W. F. Purdy	Fayetteville	Washington.
T. Quarles	Fayetteville	Washington.
H. Ragland	Fayetteville	Washington.
Fannie Robinson	Fayetteville	Washington.
I. E. Sharp	Cave City	Sharp.
E. B. Simonds	Fayetteville	Washington.
W. L. Slaughter	Webbers Falls	<i>Indian Ter.</i>
Walter H. Smith	Siloam Springs	Fulton.
W. H. Smith	Fayetteville	Washington.
F. D. Spencer	Fayetteville	Washington.
B. Stone	Fayetteville	Washington.
W. R. Taylor	Van Buren	Crawford.
R. Usry	Fayetteville	Washington.
Eleanor Vault	Fayetteville	Washington.
C. G. West	Berryville	Carroll.
Annie Whitlow	Fayetteville	Washington.
J. D. Whithorne	Carroll	Chicot.
R. Williams	Fayetteville	Washington.
Mattie Wood	Fayetteville	Washington.
R. A. Young	Oakland	Marion.

SUMMARY BY CLASSES.

Second Year.....	145
First Year.....	173
Irregular.....	85
Total	403

SUMMARY BY COURSES.

Agricultural	30
Engineering.....	83
General.....	205
Irregular.....	85
Total	403

GENERAL SUMMARY.

Collegiate Students.....	210
Preparatory Students	403
Medical Students (<i>Little Rock</i>).....	72
Law Students (<i>Little Rock</i>).....	36
Branch Normal Students (<i>Pine Bluff</i>).....	241
Total	962

SCHOOL OF MEDICINE.

LITTLE ROCK, ARKANSAS.

PRELIMINARY FALL COURSE.

EDWIN BENTLEY, M. D., Surgical Pathology.
E. E. MOSS, A. M., L.L. B., Legal Medicine.
L. P. GIBSON, Minor Surgery and Bandaging.
C. WATKINS, M. D., E. R. DIBRELL, M. D., Physical Diagnosis.
LOUIS R. STARK, M. D., Diseases of Children.
S. H. KEMPNER, M. D., Urinary Analysis, Microscopy and Bacteriology.
J. J. MCALMONT, M. D., Hygiene.
FRANK VINSONHALER, M. D., Diseases of Throat.
W. H. MILLER, M. D., Emergencies.
F. H. CLARKE, Local Forecast Official U.S. Weather Bureau, Meteorology

NOTE.—The names of the entire Medical Faculty are given on page 8.

THE REGULAR WINTER COURSE of lectures will begin on Thursday, November 1, 1894, and continue twenty-four weeks.

Lectures will be delivered daily during the six days of each week.

The matriculation book will be opened on and after September 1 to students desiring to matriculate early and secure choice of seats.

THE PRELIMINARY FALL COURSE, which is given gratis to all students, will begin on Wednesday, October 3,

1894, and continue to Thursday, November 1, 1894, when the regular winter session opens.

In making this annual announcement the Faculty feel great satisfaction in referring to the continued success and prosperity of the Medical School. The cordial indorsement of the Arkansas State Medical Society and the generous influence of the medical profession throughout the State are cordially appreciated and accepted by the Faculty, as an encouragement to them to continue the arduous labors they have so long and so zealously maintained.

AMERICAN MEDICAL COLLEGE ASSOCIATION.

In accordance with the requirements of this Association, in our announcement for 1891, we gave notice that after July 1, 1892, all students who had not taken a full course of lectures prior to that date, would be required to attend *three courses of lectures, of six months each, in three separate years*. Many States refuse to grant license to graduates of Medical Schools requiring but two courses of lectures.

The Faculty design to keep pace with the progress of higher medical education, and to make a diploma from the Medical School of Arkansas Industrial University as honorable and valuable to her alumni as the diploma of any other medical college.

THE REGULAR THREE YEARS' COURSE has been graded as follows:

First Year will include Anatomy, Physiology, Pathology, Chemistry, Materia Medica and Therapeutics, Microscopy, Hygiene and Public Health, Dissections and attendance upon the Clinics.

Second Year: Anatomy, Physiology, Pathology, Materia Medica and Therapeutics, Practice of Medicine, Surgery, Midwifery, Diseases of Women and Children, Ophthal-

mology and Otology, Medical Chemistry, Toxicology, Medical Jurisprudence, and attendance upon the Clinics and Hospital.

Third Year: Practice of Medicine, Surgery, Midwifery, Diseases of Women and Children, Laryngology and Rhinology, Diseases of the Nervous System, Ophthalmology and Otology, Medical Jurisprudence, Dissections and attendance on the Clinics and Hospital.

LOCATION.

The city of Little Rock is very happily situated, being central in the State and a goodly distance from any other large city. Railroads enter from every direction, making it an easily accessible point.

It has a population of upwards of 40,000 people, and has always been classed as one of the healthiest cities west of the Mississippi River. Few cities can boast of better public schools, colleges, and universities than Little Rock. All the eleemosynary institutions of the State are located here. These are the Blind, Deaf-Mute, and Insane Asylums.

COLLEGE BUILDING.

The new structure is an imposing edifice, three stories in height, constructed of brick, and admirably arranged for the convenience of both students and instructors.

It has a large lecture hall, fine amphitheater with chairs, a library, a reading room, a museum, and several private dissecting rooms, all well lighted and ventilated. In fact, it is designed to be a model medical college building. It is situated on Second and Sherman streets.

HOSPITALS.

The Little Rock Infirmary, a new institution designed solely for the treatment of acute diseases, has a capacity of fifty beds. This hospital, splendidly equipped and furnished with modern conveniences and improvements, is in the very

best sanitary condition, and under the supervision and management of trained nurses—Sisters of Charity.

The Pulaski County Hospital has just been erected at a cost of some \$30,000. It is a handsome brick structure, well arranged, complete in all its equipments, and has a capacity of 200 beds. It is under the general direction of the Judge of Pulaski County, and is also benevolent in character. In this institution the chronic diseases and injuries of long standing will generally predominate.

Sufferers from railway accidents, marine patients, and the sick and injured from the city, county, and State, find in these hospitals shelter, food, raiment, and that Christian attention so cheering and comforting in sickness and distress.

Their inmates embrace all classes and conditions of unfortunates—white, colored, male, female, adults, and children—and with them are found almost every character and form of sickness, except contagious diseases, which are otherwise provided for.

THE ISAAC FOLSOM CLINIC.

Every student of this department is required to attend the Isaac Folsom Clinic, and each candidate for graduation must pass a thorough examination on clinical instruction herein received, and this fact will be specially mentioned on the face of his diploma.

The instruction of this Clinic is eminently practical in every particular, and is attended by a very large number of outdoor patients from the city and surrounding country. It embraces a wide range of troubles of various forms, character and condition, in fact the larger portion of the ills that humanity has to contend with, both medical and surgical. Hence the advantages of this daily Clinic, for those who desire ocular demonstrations, can hardly be estimated.

METHODS OF TEACHING.

Instruction in this department will be given by didactic and clinical lectures, by practical work in the dissecting room, and in the chemical and physiological laboratories, and by daily quizzes upon the subject of preceding lectures.

When the subject will admit of it, each branch will be so illustrated by means of diagrams, charts, models, and instruments, as to address the understanding of the student through the medium of sight as well as hearing.

THE EXPENSES OF LIVING, ETC.

The expenses of living in the city of Little Rock will, of course, vary according to the views and habits of students. Good board, at the present time, including lodging, fuel, and lights, may be had, at a convenient distance from the College, at from \$4 to \$6 per week, and from \$13 to \$18 per month.

The list of parties desiring to board medical students will be found at the College building. Persons desiring further information are requested to address the Secretary of the Faculty.

REQUIREMENTS FOR ADMISSION.

Applicants must be eighteen years of age and must present a certificate of good moral character and a diploma of graduation from a good literary and scientific college or high school, or a first-class grade teacher's certificate. Lacking this, they must pass a thorough examination in the branches of a good English education, including mathematics, English composition, and elementary physics or natural philosophy. This is in conformity with Article III., American Medical College Association.

TERMS.

The fee for a full course of lectures will be: General tickets, \$50; Matriculation ticket (paid but once), \$5; Demonstrator's ticket for each course, \$5; Hospital ticket, each course, \$3; graduation fee, \$25.

No variation is made, under any circumstances, from the established fees of the College, they having been placed originally at the very lowest figure commensurate with the interests of both student and College.

For more specific information and catalogue apply to

E. R. DIBRELL, M. D.,

Secretary of Faculty,

Little Rock, Ark.

LAW SCHOOL

LITTLE ROCK, ARKANSAS.

FACULTY.

FRANK M. GOAR, Dean, Professor of Common and Statute Law.
THOMAS B. MARTIN, Professor of Criminal Law and Procedure.
GEORGE B. ROSE, Professor of Evidence, Pleading, and Practice.
WILBUR F. HILL, Professor of Equity Jurisprudence.
MORRIS M. COHN, Professor of Law of Corporations.

The Law course embraces two years divided into four terms. Fall term will commence October 2, 1894, and close January 31, 1895. Spring term will commence February 1, 1895, and close June 1, 1895.

COURSE OF INSTRUCTION.

The design of this school is to afford such training in the fundamental principles of the law, as will constitute the best preparation for the practice of the profession anywhere in the United States, and especially in the State of Arkansas. With this view the course of study, which is intended to occupy the student two years, will comprise the following subjects:

JUNIOR YEAR.

First Term—*Elementary Law*, Robinson; *Contracts*, Bishop, Lawson; *Agency*, Mecham, with Lectures; *Partnership*, Parsons, with Lectures; *Commercial Paper*, Benjamin's Chalmers; *Domestic Relations*, Schouler, with Lectures.

Second Term—*Criminal Law*, Harris; *Evidence*, Greenleaf, Vol. I.; *Code Pleadings*, Bliss; *Judgments*, Freeman, with Lectures; leading cases; moot courts.

SENIOR YEAR.

First Term—*Law of Private Corporations*, Cook; *Municipal Corporations*, Lectures; *Bailments*, Schouler; *Insurance*, Lectures; *Torts*, Cooley; moot courts.*

Second Term—*Real Property*, Tiedeman; *Equity Jurisprudence*, Bispham; *Equity Pleading*, Langdell, with Lectures; *Constitutional Limitations*, Cooley; *Conflict of Laws*, Lectures; *Fraud and Fraudulent Conveyances*, Lectures; leading cases; moot courts.

For the fall term students will be matriculated at any time upon satisfactory examination. Books can be purchased here. We do not think it prudent for students to devote less than two years to the foregoing course. "He who is not a good lawyer when he comes to the bar, will seldom be one afterwards," is a saying full of truth.

Thought as well as reading is necessary to the proper understanding of our system of jurisprudence. No man can hope to be a great lawyer by the cramming process. While students are advised not to attempt to complete the full course in a single year, yet if one chooses to make the effort, and has acquired sufficient knowledge of the law from previous reading, he will be admitted to the graduating examination, and if he attains the standard required, he is entitled to his degree. Every candidate for the honor degrees will be required to attend the full term of two years.

EXPENSES.

Tuition, \$50 per session, payable \$10 in advance, and \$5 per month thereafter during the session. Books will cost from \$20 to \$30 per year. Board from \$15 to \$20 per

month; by the club system, where the students do their own work, from \$6 to \$10 per month.

Cheap lodgings may be obtained by consulting the Dean of the Faculty before the opening of the session, and the cost of living need not be greater in Little Rock than elsewhere in the State.

Many reasons may be given why young men contemplating the practice of law in Arkansas should patronize their own law school. First, in the application of the elementary principles of law in the practice, the reference books must be in the main to the laws of the State where the law school is located, as found in the Constitution, Statutes, and Supreme Court Reports of the State. Second, emulation and class organization will do much for the law student.

The old way of serving a term in a private law office of a senior at the bar is fast yielding to more modern and better methods.

“The time has gone by when an eminent lawyer in full practice can take a class of students into his office and become their teacher. Once that was practicable, but now it is not. The consequence is that law schools are now a necessity.”—*Chief Justice Waite.*

Again, the associations and friendships formed with representative young men throughout the State are invaluable in many respects to the practitioner.

EXAMINATIONS.

Written examinations are held each term in the presence of a member of the Faculty upon questions handed the student at the time, and on the merit of their papers students will be graded carefully. Diplomas and degrees will be awarded by the Board of Trustees upon the recommendation of the Faculty.

Those of the Senior Class who attain a sufficiently high grade on their examinations will be entitled to the degree of Bachelor of Laws.

Every candidate for this degree is required to file with the Faculty an essay or thesis upon some topic connected with his studies.

MOOT COURTS.

Moot Courts are held from time to time during the term, in which students discuss cases previously assigned them for that purpose by the Professor. These courts are presided over by the Professor, who, at the conclusion, reviews the arguments and gives his decision upon the points involved. The effort here is to make not merely theoretical but practical lawyers; not to teach principles merely, but how to apply them. To this end the Moot Court is made the forum for the discussion of such practical questions as most frequently arise in a professional career at the bar; and the attention of the students is directed not less to the application of the points discussed in actual cases, than to the elucidation of the legal questions. An opportunity is afforded all the Senior students to participate in this court, and to all Junior students of the second term.

Moot Courts are conducted on the theory that certain facts are true, and that the only subject open to discussion is the rule of law to be applied to them. The student, having obtained from the Faculty a statement of facts, is required to prepare pleadings, and draw up a brief in which the rules of law are stated under appropriate divisions and sustained by authorities which he proposes to rely upon in his oral argument.

The pleadings are submitted to the Professor. He calls the student's attention to such errors as may exist, and gives such other practical information as he may deem advisable.

PROFESSIONAL ETHICS.

While endeavoring to impart legal knowledge, the fact will not be lost sight of that a high moral standing is a most important requisite to a successful and honorable career, and

no pains will be spared in impressing this fact upon students and inculcating a high tone of professional ethics and action.

The transfer of the Law Department of the University from Fayetteville to Little Rock was advised because Little Rock is centrally located, easy of access, and is the seat of government, with a full complement of courts, State and Federal, with an able bar; and last but by no means least, the Supreme Court Library is as large, if not the largest law library west of the Mississippi River. We have arranged for regular students to have access to this magnificent library of the Supreme Court.

We have no doubt the transfer will be a very decided benefit to the students, and the cost of living to young men who are in real earnest about learning the law, need not be greater here than elsewhere.

For further information address

F. M. GOAR, *Dean*,
Little Rock, Ark.

BRANCH NORMAL COLLEGE.

FACULTY.

NORMAL DEPARTMENT:

J. C. CORBIN, A. M., Principal.

JAS. C. SMITH, First Assistant.

ANNIE C. PATILLO, Second Assistant.

THOMAS G. CHILDRESS, Third Assistant.

MECHANICAL DEPARTMENT:

C. V. KERR, Superintendent of the Mechanical Department.

W. S. HARRIS, Assistant Superintendent of the Mechanical Department.

A. E. SMITH, Machine and Blacksmith Shops.

LORENZO ELLIS, Engineer.

GENERAL STATEMENT.

The Branch Normal College is a Department of the Arkansas Industrial University, established pursuant to an act of the General Assembly of the State of Arkansas, approved April 25, 1873, and has been in operation since September 27, 1875. Its primary object is the training of teachers for efficient service in the colored public schools of the State—the law referred to having been enacted with special reference to the “convenience of the poorer classes.” For the purpose of carrying out the intent of the law, by enabling those who wish to avail themselves of its advantages, there is no charge for tuition for appointees; the only requirements for admission being suitable age and qualification, appointment from one of the County Judges, and the payment of the entrance fee of \$5.

LOCATION, ETC.

The school property consists of a beautiful tract of 20 acres of ground, in the suburbs of Pine Bluff, Jefferson County,

Arkansas, and a few rods from the junction of the Missouri Pacific, and St. Louis Southwestern railroads. The school building, completed in 1881, and occupied January 30, 1882, is one of the handsomest educational edifices in the State, as well as one of the best, being warm and comfortable, well lighted and ventilated. It contains one large assembly room, four recitation rooms, and cloak rooms for males and females. The building is of brick, with slate roof and trimmings of Alabama granite, and cost, with improvements and furniture, \$12,000. The furniture and other equipments are of the best modern style.

The Dormitory for female students is under the supervision of the Principal and his wife. It is a handsome brick structure sufficient for the accommodation of thirty or forty students. Board bills are payable monthly in advance, and no deduction is made for loss of time less than one week. Girls staying in the Dormitory are required to keep their own rooms and the halls clean, and to assist in turn, in the dining room and kitchen. They are expected to furnish their own bed linen, and are held responsible for all damage to furniture in their rooms. They are not to visit each other's rooms, except by invitation from the occupant, and two are expected to occupy one room. They are not allowed to change rooms, nor to visit in town except by permission. The charge for board, fuel, and light thus far has been \$8 per month, in advance, and, if possible, that price will be continued.

The shop building was completed in February, 1892. It is of brick and covers a plat of ground 70x70, comprising a woodshop 35x35, a foundry 25x25, a blacksmith shop 25x25 and a machine shop 35x25. A boiler room 20x25 and a court 35x20 occupy the remaining space. The shops will accommodate sixty students at one time. During the past year the entire attendance was 241.

NORMAL DEPARTMENT.

The design of this Department is to train teachers for the common schools of the State.

Applicants must pass a satisfactory examination in the common English branches in order to enter this Department.

In addition to a thorough knowledge of the branches to be taught, the work comprehends:

1. Training in methods of imparting instruction in the branches to be taught.
2. Methods of leading pupils to think and investigate for themselves.
3. How to grade and organize the various kinds of schools.
4. Government or discipline of schools.
5. Duties of teachers as governed by School Law.

By the laws of the State, the appointment of students to the Branch College, in numbers from each county in the State, is the same as to the University at Fayetteville. The power is vested in the County Courts; but any vacancies occurring during the vacations of the court, shall be filled by the Judge of the County Court.

All the students thus appointed are entitled to four years' free tuition, upon the payment of \$5 matriculation fee, *in advance, at the time of entering the school.*

All Beneficiaries and Normal students should be present at the opening of the Autumn Term; and the unnecessary delay, either of old students returning or of new ones reporting, *will lead to the forfeiture of their appointments.* The strictest attention to study, and most exact punctuality in attendance on recitations and all other duties, are made the conditions of every student's continuance at the institution. Appointments are *not transferable.*

The course of study in this Department is intended to be fully equivalent to the usual college course up to and including the Sophomore year. In the subsequent course of two years the usual studies of the Junior and Senior years are included. Eleven classes have graduated, and, as will

be seen in the list of alumni, are now occupying prominent positions. The institution has a good library of over 2,000 volumes, a reading-room well supplied with current literature and a valuable supply of physical apparatus. There is also a good collection of typical minerals.

DEPARTMENT OF MECHANIC ARTS.

The shops of the Branch Normal College are built and equipped for the purpose of giving the colored boys of our State a chance to make themselves useful by learning to be carpenters, pattern makers, moulders, blacksmiths, machinists, and engineers or firemen.

While learning the basis of his trade, the student acquires a good knowledge of Language, History, and Drawing. Throughout the course of four years in the shops, the student spends an average of ten hours a week in actual labor; and, while the amount of time spent in the shops seems small, experience has shown that students under constant instruction from skilled teachers and passed from one exercise to another as soon as the work is well done, make very rapid progress.

We are therefore prepared to offer:

(a.) A course in general shop work extending over three years, followed by a fourth year's work in one of the shops selected by the student. The design is to enable a young man to choose his trade intelligently and to acquire a sound basis for it.

(b.) A three year's course in general shop work followed by a fourth year's work in the management of boilers, engines, and heating systems. This course is intended to train young men for the practical work of firemen and engineers.

(c.) A course in general shop work extending over three years, together with class-room work in the theory and practice of teaching, followed by a fourth year's work in handling classes in the shops and in laying out series of practical exercises.

These shops have a very superior equipment as will be seen from the annexed statement :

Wood Shop.—The equipment already secured includes 12 benches with complete sets of carpenters' tools, a double-circular sawing machine, a scroll saw, a buzz planer, and six wood turning lathes.

Foundry.—A Collian cupola capable of melting $1\frac{1}{2}$ tons of iron per hour is in position, and the remainder of the outfit will be added shortly. It will include ladles, moulders' tools, flasks, core oven, rumble, etc.

Forge Shops.—Twelve Buffalo forges are in position, the blast being supplied by a blower, and the smoke drawn off by a large exhaust fan. Besides the usual outfit of anvils, hammers, tongs, etc., there is a Buffalo punch shear and bar cutter capable of cutting off 1 inch bar iron $\frac{1}{2}\times 3$ inch strap iron, or of punching a $\frac{3}{8}$ inch hole in $\frac{3}{8}$ inch iron.

Machine Shop.—Among the tools already ordered and partly in place, are a 15 inch crank shaper, $24\times 24\times 6$ planer, 20 inch drill press, 15 inch \times 5 feet turret lathe, 18×6 inch engine lathe, 14 inch \times 6 feet engine lathe, 12 inch \times 5 feet hand lathe, universal milling machine, cutter and reamer grinder, twist drill grinder, grindstone, etc.

Heating and Power Plant.—Two vertical engines of 12-horse power each are in position, also two 30-horse power tubular boilers. The piping for feed water is so arranged that the water passes from either pump or injector through a feed water heater to the boiler; and the exhaust piping is so arranged that the exhaust steam from the engines can be used either to heat the feed water or to heat the shops.

Water Supply.—In the court of the shop building, a 4 inch Cook tubular well has been put down which will furnish 1,000 gallons of water per hour. A Cook pump delivers the water to a tank 30 feet above ground, holding 8,000 gallons.

Materials and tools will be furnished to students taking shop work. When necessary, however, each student will be expected to provide himself with a blouse and overalls to work in.

EXPENSES.

The expenses of a student at the Branch Normal College need not exceed the amount herein stated :

Board in private families, including fuel, light, and washing, can be had from \$8 to \$10 per month. A Normal student pays \$5 entrance fee, which entitles him to free tuition for four years. Books may be purchased at Pine Bluff at the purchaser's usual retail price. Quite a number of students have paid a part of their board by labor in private families. Nonbeneficiary students will be charged the sum of one dollar per month for tuition, payable in advance.

In addition to the regular class exercises laid down in the curriculum of study, there are regular lessons in vocal music, which are open to all the students. The general exercises also include a review of the Sabbath-school lesson, review of the events of the week, Calisthenics, Music, and Drawing. Music upon instruments, the Organ, Piano, Flute, Guitar, etc., is extra, but very reasonable in price. There are two Literary Societies, the Junior and Senior, which hold weekly meetings and afford excellent opportunities for practice in oratory, debate, and composition. It is required that every student shall become a member and attend the meetings of one of the societies.

The length of the vacation allows the advanced students an opportunity to engage in teaching, and a large proportion of their number have done so during the last five years. In nearly all cases they have given satisfaction and conduct their schools with a fair degree of success.

All further information and blanks for appointments may be obtained by application to the Principal,

J. C. CORBIN, A. M.

Pine Bluff, Ark.

BEQUESTS TO THE UNIVERSITY.

Forms of bequests are given below in the hope that the friends of education will aid the Trustees and Faculty in their earnest efforts to enlarge and perpetuate the work of the University.

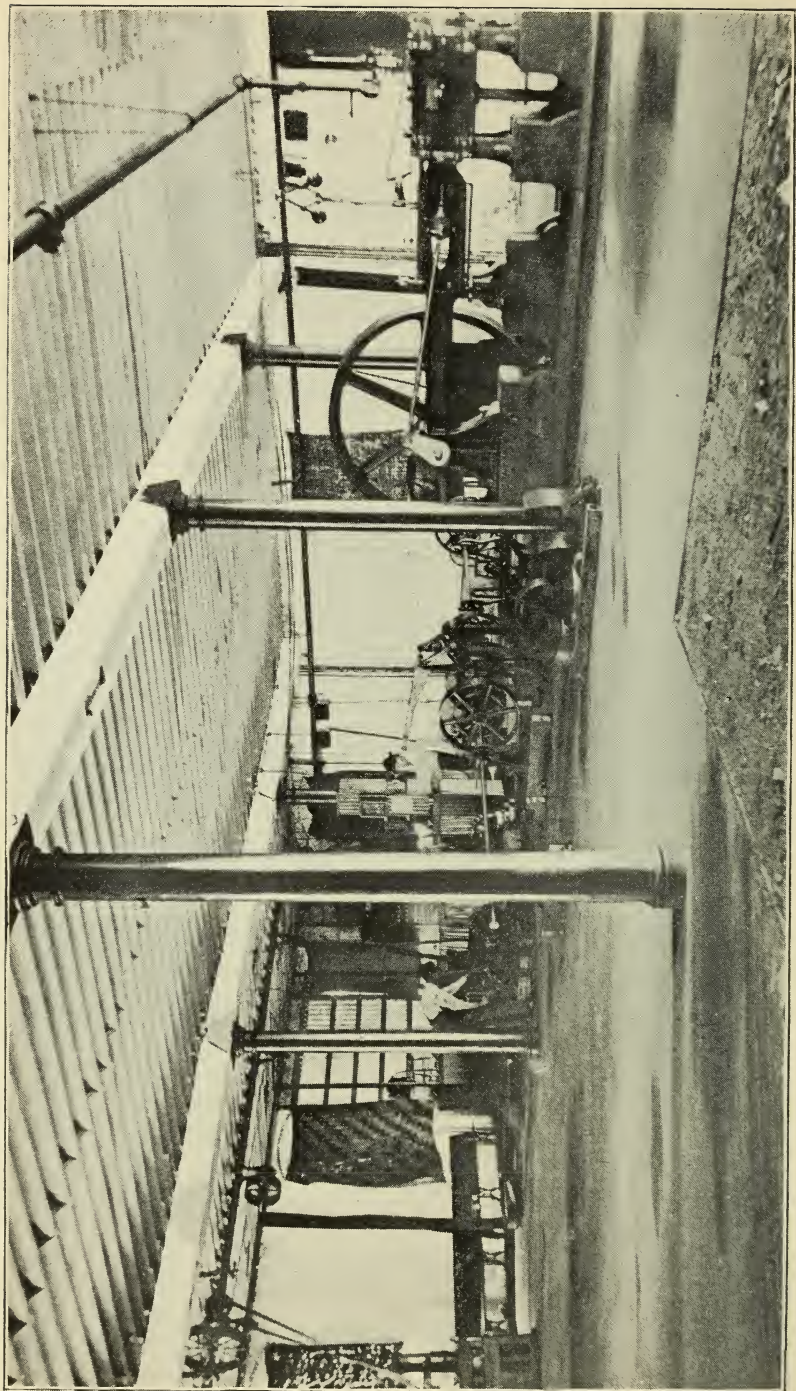
1. I devise and bequeath to the Trustees of the Arkansas Industrial University at Fayetteville..... dollars for its permanent endowment.

2. I devise and bequeath unto the Trustees of the Arkansas Industrial University at Fayetteville \$30,000 for the endowment of a professorship of in said University.

3. I devise and bequeath to the Trustees of the Arkansas Industrial University at Fayetteville \$3,000 (or \$4,000, or \$5,000) for the endowment of a fellowship in the department of.....in said University.

4. I devise and bequeath to the Trustees of the Arkansas Industrial University at Fayetteville \$1,500 for the endowment of a scholarship in said University.

5. I devise and bequeath to the Trustees of the Arkansas Industrial University at Fayetteville dollars to increase the Library of said University.



APPENDIX.

SPECIMEN EXAMINATIONS FOR ADMISSION TO FRESHMAN CLASS.

Examinations will be of the same general character as the following :

I. MEIKLEJOHN'S ENGLISH GRAMMAR. 2 hours.

1. Tell all the different ways of distinguishing gender; illustrate each by example.

2. Name and define all the different kinds of pronouns.

3. Give distinction between strong (or irregular) and weak (or regular) verbs, and principal parts of one strong verb and of one weak verb. Give a complete synopsis of the verb *know* in the passive voice, using the third person singular.

4. Analyze carefully the following sentence, giving special attention to the relation of the subordinate clause to the principal clause: "The love of reading, *which* Gibbon *declared* he would not exchange for all the treasures of India, was, with Macaulay, a *main* element of happiness in one of the happiest lives *that* it has ever fallen to the lot of the biographer to *record*."

5. Parse the words italicized in the above sentence. Construe the words italicized in the following sentence: (1) They offered *Cæsar* the crown three *times*.

6. Name the prefixes and suffixes in the following words, and tell what force they have: (1) Steward, (2) gainsay, (3) golden, (4) weakness, (5) forbid, (6) stagger, (7) misdeed, (8) trickster, (9) sparkle, (10) withstand.

7. Name following meters and mark accented syllables:

(a) Brightest and best of the sons of the morning.

(b) True wit is nature to advantage dressed.

(c) In his chamber, weak and dying.

II. ENGLISH COMPOSITION. 1 hour.

Write a composition of 200 to 300 words upon The Quarrel Between Brutus and Cassius, in Shakespeare's Julius Cæsar.

III. ARITHMETIC. 1 hour.

First, second, third, fourth, and fifth questions same as in examination for admission to the Preparatory School, page 168.

6. See Wentworth's Arithmetic, page 236, example 9.

7. See Wentworth's Arithmetic, page 261, example 5.

IV. ALGEBRA. $1\frac{1}{2}$ hours.

1. Simplify the following expressions by removing the parentheses and collecting like terms:

$$(a) - [b + \{a - (d + a)\}]$$

$$(b) - [5x - (11y - 3x)] - [5y - (3x - 6y)]$$

2. Resolve the following into factors:

$$x^3 + y^3, x^4 - y^4, x^2 - 19x + 90, 240 + x - x^2, \text{ and } x^3 - 8.$$

3. Find the greatest common divisor of

$$8x^3 - 2x^2 - 53x - 39 \text{ and } 4x^3 - 3x^2 - 24x - 9.$$

4. Given: $2x + 3y + 4z = 20.$

$$3x + 4y + 5z = 26.$$

$$3x + 5y + 6z = 31.$$

To find the value of $x, y, z.$

5. Find the cube root of

$$1 - 9x + 39x^2 - 99x^3 + 156x^4 - 144x^5 + 64x^6.$$

6. Find the value of

$$(1\sqrt{7} + 51\sqrt{3})(21\sqrt{7} - 51\sqrt{3});$$

and the value of x in

$$14 - 1\sqrt{x} - 3x = 6, \text{ and}$$

$$x^2 + 6x = 27.$$

V. PLANE GEOMETRY. $1\frac{1}{2}$ hours.

Demonstrate the following propositions:

1. The three perpendiculars from the middle points of the sides of a triangle meet in the same point.

2. An inscribed angle is measured by one-half of its intercepted arc.

3. Upon a given straight line, describe a segment of a circle which shall contain a given angle.

4. If two triangles have their sides respectively parallel, or respectively perpendicular, they are similar.

5. If from a point without a circle a secant and a tangent are drawn, the tangent is a mean proportional between the whole secant and the extreme segment.

VI. U. S. HISTORY. 1½ hours.

Tell all about the following:

1. DeSoto. 2. The Battle of Guilford Courthouse. 3. The Missouri Compromise. 4. The Doctrine of State's Rights.

VII. GENERAL HISTORY. 1 hour.

Tell all about the following:

1. Cyrus the Great. 2. The Battle of Salamis. 3. Hannibal. 4. Alfred the Great. 5. Cardinal Richelieu.

VIII. GEOGRAPHY. 1½ hours.

1. Name in their order twenty rivers flowing into the Atlantic Ocean or its arms, between the Bay of Fundy and the Florida Keys.

2. Name the principal cities of Louisiana, Texas, Ohio, Illinois, Michigan, and Minnesota (one city each), and describe their situation.

3. Describe the climate and productions of Mexico.

4 and 5. What and where are the following? Give exact locations: Aconcagua, Aral, Baikal, Bothnia, Ceylon, Delhi, Farewell, Formosa, Hecla, Munich, Ponchartrain, Sunda, Verde, Volga, Yukon.

IX. PHYSIOLOGY. 1 hour.

1. Describe the structure of the femur.

2. How does the blood-plasma differ from blood serum?

3. Describe the formation of a blood clot.

4. Define the terms "afferent," "efferent," "voluntary," "involuntary," "reflex."

5. Name and give the most important characteristics of eight of the principal tissues of the body.

X. LATIN. 2 hours.

Translate Cæsar's Gallic War, Book I., chapter 22, from *prima luce* to *abstinebat*.

1. Give principal parts of *abesset*, *accurrit*, *teneri*, *cognovisse*, *instruit*.

2. Explain cases of *luce*, *equo*, *quem*, *ei tempore*.

3. Explain uses of modes in *teneretur*, *teneri*, *fieret*.

4. Compare *prima*, *summus*, *proximum*, *longius*.

5. Give the whole indicative mode of *voluerit*, and the whole subjunctive of *abesset*, and translate the first person of each tense.

6. Decline *passibus, eum, quem, insignibus, uno.*

7. Parse *hostium, occupari.*

Translate Book II., chapter 32, from *ad hæc* to *dixerunt.*

Translate into Latin:

1. He will order the lieutenant to send soldiers as a relief to our men. 2. We are so many in number that we can easily keep their army from the march. 3. If they make peace with us, we shall go into that part where they wish us to be. 4. We cannot see the mountain, although it is of great height. 5. We shall march through Geneva at sunset, because we are not more than 20 miles distant.

Besides this, an oral examination is required.

SPECIMEN EXAMINATION FOR ADMISSION TO FIRST YEAR IN THE PREPARATORY SCHOOL.

Examinations will be of the same general character as the following:

I. ARITHMETIC THROUGH PERCENTAGE. 2 hours.

1. A boy runs 3.876 miles, dropping a piece of paper every 4.75 feet. How many pieces does he drop?

Analysis: In one mile there are 5280 feet, and in 3.876 miles there are 3.876 times 5280 feet = 20,465.28 feet. If in 4.75 feet he drops one piece, in 20,465.28 feet he will drop as many pieces as 4.75 is contained in 20,465.28 feet, which is 4308 papers.

2. Reduce $\frac{3\frac{6}{5}}{11}$ to its lowest terms.

3. A owns three-fifths of a ship worth \$25,748, B one-fourth of the remainder, C one-eighth of the amount belonging to A and B, and D owns what is still left. What is the value of D's share? Give full analysis.

4. Find cost of papering a room 32 feet long, 22 feet wide, 13 feet high, with paper 18 inches wide, 8 yards in a roll, at \$1.25 a roll, if 50 square yards be allowed for doors, windows, and base boards.

5. The longitude of New York is 74° west, that of Paris is 2° 20' east. When it is fifteen minutes past 10 a. m. in New York, what is the time in Paris?

II. GRAMMAR. 2 hours.

1. Name and define all the parts of speech.
2. Name and define all the different kinds of pronouns, all the different kinds of participles, and give an example of each kind.
3. Give three rules for forming the possessive case of nouns, with example of each. What is the possessive case of *conscience*?
4. Analyze the following sentences: 1. The boy that you saw is my younger brother. 2. One soldier was present when the roll was called.

III. GEOGRAPHY. 1 hour.

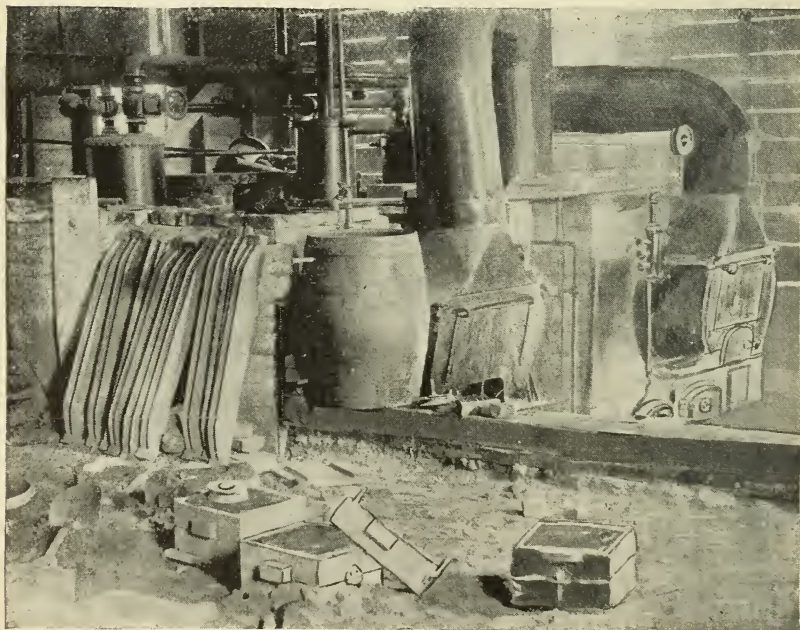
1. Name in their order twenty rivers flowing into the Atlantic Ocean or its arms, between the Bay of Fundy and the Florida Keys.
 2. Name the principal cities of Louisiana, Texas, Ohio, Illinois, Michigan, and Minnesota (one city each), and describe their situation.
 3. Describe the climate and productions of Mexico.
 - 4 and 5. What and where are the following? Give exact locations: Aconcagua, Aral, Baikal, Bothnia, Ceylon, Delhi, Farewell, Formosa, Hecla, Munich, Ponchartrain, Sunda, Verde, Volga, Yukon.
-

ERRATUM.

On page 31, line 11, in place of C. J. Eld, read James E. Gibson, honor student in Engineering.



LABORATORY BUILDING.



FOUNDRY AND BOILER ROOM.

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TWENTY-THIRD CATALOGUE

OF THE

ARKANSAS INDUSTRIAL UNIVERSITY,

FAYETTEVILLE, WASHINGTON COUNTY, ARK.

MEDICAL AND LAW SCHOOLS AT LITTLE ROCK.
BRANCH NORMAL COLLEGE AT PINE BLUFF.

1895 AND 1895-'96.

ANNOUNCEMENTS FOR 1896-'97.

1896
THRASH - LICK PRINTING CO.
"THE UP-TO-DATERS"
FORT SMITH

1896														1897																	
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Calendar, 1896='97.

FAYETTEVILLE.

1896

September 16—First term begins.

September 16-19—Entrance examinations.

November 26—Thanksgiving, a holiday.

1897

January 22—First term examinations begin.

January 30—First term ends.

February 1—Second term begins.

June 3—Decoration day, a holiday.

June 4—Second term examinations begin.

June 13—Baccalaureate sermon.

June 17—Annual commencement.

MEDICAL DEPARTMENT, LITTLE ROCK,

1896

October 1—Preliminary course begins.

November 2—Regular session begins.

1897

April 30—Session ends.

LAW DEPARTMENT, LITTLE ROCK.

1896

October 1—Fall term begins.

January 30—Fall term ends.

1897

February 1—Spring term begins.

June 1—Spring term ends.

BRANCH NORMAL COLLEGE, PINE BLUFF.

1896

September 7—Session begins.

1897

June 5—Session ends.

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Branch Normal:

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DIRECTOR OF THE STATION.

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At Fayetteville.

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JEROME FEE MCNEILL, B. S., M. A.,
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RICHARD HENRY WILLIS, M. A., PH. D.,
Professor of English and Modern Languages.

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Professor of History and Pedagogics.

ELIAS CHANDLER (First Lieut., 16th Infantry, U. S. A.),
Professor of Military Science and Tactics, and Commandant.

JOHN CLINTON FUTRALL, M. A.,
Professor of Ancient Languages.

HARRISON RANDOLPH, M. A.,
Professor of Mathematics, Logic and Astronomy.

Professor of Political Economy and Sociology.

WILLIAM BURDELLE BENTLEY, A. M.,
Associate Professor of Chemistry and Physics.

GEORGE WESLEY DROKE, A. M.,
Associate Professor of Mathematics.

SETH EUGENE MEEK, M. S., PH. D.,
Associate Professor of Biology and Geology, and Curator of the Museum.

JULIUS JAMES KNOCH, M. S., C. E.,
Associate Professor of Civil Engineering.

WILLIAM NATHAN GLADSON, B. M. E.,
Associate Professor of Electrical Engineering.

IDA PACE, A. B.,
Associate Professor of English and Modern Languages.

TWENTY-THIRD CATALOGUE

EDGAR FINLEY SHANNON, B. A.,
Associate Professor of Ancient Languages.

Associate Professor of History and Pedagogics.

BOLING JAMES DUNN, A. M.,
Principal of Preparatory Department.

Instructors and Officers.

WILLIAM FERDINAND BATES,
Instructor in Agriculture and Foreman of the Farm.

JESSIE LEE CRAVENS, B. L.,
Instructor in Elocution.

MACK MARTIN, B. M. E.,
Assistant Superintendent in Mechanic Arts.

GEORGE ALBERT COLE, A. M.,
Instructor in Mathematics.

MARY ELIZABETH WASHINGTON, M. E. L.,
Instructor in Geography and English.

NAOMI JOSEPHINE WILLIAMS, A. M.,
Instructor in Latin and History.

EMMA WILMER COLE, M. L. L.,
Instructor in History and Mathematics.

MARY ANNE DAVIS,
Instructor in English.

FRANK PIERCE NICHOLAS,
Instructor in Woodworking.

*GEORGE WILLIAM BASHAW,
Instructor in Forging and Founding.

ANNA H. EDMISTON,
Instructor in Instrumental Music.

ANNA DINSMORE DAVIS,
Instructor in Vocal Music.

AMARINTHIA LEVERETT,
Instructor in Art.

GEORGE VAUGHAN,
Fellow and Assistant in Latin.

* Resigned.

EDNA ALLEN, CLARA EARLE, LILA DAVIES, MOLLIE REMY,	}	Class of 1895-'96.
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Assistants in English and Modern Languages.

CHARLES JOHN ELD,
Assistant in English.

JULIA ANGELINA GARSIDE,
Librarian.

GEORGE ALBERT COLE,
Superintendent of Dormitories.

CLAY SMITH DUGGANS,
Engineer.

At Little Rock.

MEDICAL DEPARTMENT.

P. O. HOOPER, M. D.,
Emeritus Professor of the Practice of Medicine.

EDWIN BENTLEY, M. D.,
Professor of the Principles and Practice of Surgery.

JAMES A. DIBRELL, JR., M. D.,
Professor of General, Descriptive, and Surgical Anatomy, and President of
the Faculty.

A. L. BREYSACHER, M. D.,
Professor of Obstetrics and Diseases of Women and Children.

JOHN J. MCALMONT, M. D.,
Professor of Materia Medica, Therapeutics, Hygiene and Botany.

JAMES H. SOUTHALL, M. D.,
Professor of the Practice of Medicine

ROSCOE G. JENNINGS, M. D.,
Professor of Clinical Surgery and Dermatology.

CLAIBOURNE WATKINS, M. D.,
Professor of Physical Diagnosis and Clinical Medicine.

JAMES H. LENOW, M. D.,
Professor of Diseases of the Genito-Urinary Organs.

L. P. GIBSON, M. D.,
Demonstrator of Anatomy and Adjunct Professor of Anatomy.

TWENTY-THIRD CATALOGUE

LOUIS R. STARK, M. D.,
Professor of Gynecology.

E. R. DIBRELL, M. D.,
Professor of Physiology.

C. S. GRAY, M. D.,
Professor of Ophthalmology and Otology.

S. H. KEMPNER, M. D.,
Professor of Histology, Pathology and Urinology.

W. H. MILLER, M. D.,
Prosector of Anatomy and Adjunct Professor of Obstetrics.

FRANK VINSONHALER, M. D.,
Professor of Clinical Ophthalmology and Otology.

T. N. ROBINSON,
Professor of Medical Chemistry and Toxicology.

L. AUGSPATH, D. D. S.,
Lecturer on Oral Surgery.

E. E. MOSS, A. M., LL. B.,
Lecturer on Medical Jurisprudence.

F. H. CLARKE,
U. S. Weather Bureau, Meteorology.

E. R. DIBRELL, M. D.,
Secretary of the Faculty, Little Rock, Ark.

LAW DEPARTMENT.

FRANK M. GOAR, LL. B.,
Dean.

G. B. ROSE,	}	Lecturers.
JOHN FLETCHER,		
J. C. MARSHALL,		
J. H. CARMICHAEL,		

At Pine Bluff.

NORMAL DEPARTMENT.

J. C. CORBIN, A. M.,
Principal and Instructor in Natural Science.

JAMES C. SMITH, A. B.,
Instructor in Mathematics.

ANNIE C. PATILLO,
Instructor in Languages.

THOMAS S. CHILDRESS, L. I.,
Instructor in Penmanship.

MECHANICAL DEPARTMENT.

C. V. KERR, M. E.,
Superintendent.

W. S. HARRIS,
Assistant Superintendent.

A. E. SMITH,
Machine and Blacksmith Shops.

LORENZO ELLIS,
Engineer.

AGRICULTURAL EXPERIMENT STATION.

ROBERT LOVE BENNETT, B. S.,
Director and Agriculturist.

ROBERT R. DINWIDDIE, V. S., M. D.,
Animal Pathologist and Mycologist.

GEORGE LINCOLN TELLER, M. S.,
Chemist.

JOHN TURNER STINSON, B. S.,
Horticulturist.

JOHN FRANKLIN MOORE, B. S.,
Assistant Chemist.

GEORGE B. IRBY, B. A.,
Assistant Agriculturist at Newport.

C. L. NEWMAN, B. S.,
Assistant Agriculturist at Camden.

The University and the State

The University is at the head of the public educational system of the State of Arkansas. It seeks to foster the higher educational interests of the State, broadly and generously interpreted, and to make provision for the demands of advanced scholarship in as many lines as its means will permit. It is the aim of its Faculty and Board of Trustees, from year to year, to bring it into still closer articulation with the public schools of the State, and in connection with them to afford to all the youth of either sex ample facilities for liberal education in literature, science and the industrial arts, and for the professional studies.

Through the aid received from the United States and from the State of Arkansas, the University is enabled to offer free tuition, except in the studies of Law, Medicine, Music and Art, and thus to open wide her doors to all seekers of learning.

The institution was established in accordance with an act of Congress making a grant of land for its benefit, and in accordance with an act of the General Assembly of this State carrying out the object of said grant.

LOCATION.

The University, except its Medical and Law Schools and Branch Normal College, is located at Fayetteville, Washington County, in northwestern Arkansas. It is therefore situated in the heart of the Ozark Mountains, and is more than sixteen hun-

dred feet above the sea level. The location is thought to be unsurpassed in salubrity of climate, beauty of surrounding scenery, fertility of soil, variety and perfection of agricultural and horticultural productions, and in the morality and intelligence of its people.

Students may reach Fayetteville from both the north and the south by the Texas branch of the St. Louis and San Francisco Railroad, now running three trains daily each way, and connecting on the south with the Little Rock and Fort Smith Railroad at Van Buren.

BUILDINGS.

UNIVERSITY HALL.

This is a brick structure with cut stone trimmings and a stone foundation. It is four stories in height above the basement. It consists of a front building 214 feet in length and two wings, each 124 feet in depth, the whole forming three sides of a quadrangle. This building contains a large number of class rooms, Chapel, Library and Reading Room, separate Study Halls for the boys and girls of the Preparatory Department, Armory, Magazine, Band Room, Laboratories for Engineering, Biology and Geology, Music and Art Rooms, President's and Commandant's Offices, Natural History Museum, Examination Hall, Literary Society Halls, etc., in all seventy rooms, together with broad corridors and stairways. The building is heated mainly by steam, lighted by electricity, and supplied with water from the city water works.

SCIENCE HALL.

This building, designed especially for the departments of Chemistry and Physics, was erected in 1893; it is a substantial two-story brick building 50x60 feet. On the first floor are the lecture rooms of the two departments, the physical laboratory and store-room, and also the private laboratory of the professor in charge. On the second floor are the chemical laboratories, including a laboratory for general chemistry, a laboratory for qualitative analysis, and a laboratory devoted to quantitative analysis, also a store-room for chemical supplies, a weighing room, and a hallway. The building is supplied with gas and water and with the best modern appliances for technical work. It will accommodate about a hundred students.

DORMITORIES.

The North Dormitory is a two-story frame building. It contains a dining hall, kitchens, store-rooms, and on the second floor a number of rooms for students.

The South Dormitory is a substantial and handsome brick building, three stories high and containing over forty rooms. It is favorably located with a view to the health of the occupants, convenience of access to University Hall, and sightliness of appearance on the grounds. The rooms are large, well ventilated and lighted, and open into broad corridors extending lengthwise through the building. From a wide veranda in front there are three entrances to the building. There are also two rear

entrances, and on the third floor a suite of rooms fitted up for an infirmary. Through the generosity of the ladies of Fayetteville, this suite of rooms has during the present year been thoroughly equipped.

AGRICULTURAL BUILDINGS.

The building of the Agricultural Experiment Station is of brick, one story in height. It contains the office of the Director; the laboratories of the Chemist, Horticulturist and Veterinarian; the Museum and several commodious store-rooms. Belonging to the Department of Agriculture are a large barn, stock shed, dairy house, fruit house, and other necessary out buildings.

THE SHOPS.

The old shop building erected in 1889, was totally destroyed by fire on the night of April 4, 1895. The machinery, excepting boilers, was almost a total loss. Plans for a new building were at once begun and before the year closed the new building was completed. It is of brick with stone foundation and iron roof, with a floor space of 8900 square feet, whereas the old building contained but 7600 square feet. The building provides a wood room 80x40, a foundry 35x40, forge shops 32x40, machine shop 40x48, and boiler room 32x35. Besides the main building is a brick building 15x25, divided into two rooms, without communication, one of which is for office purposes and the other for the storage of oil and paint; and a frame coal bin 12x30, covered with iron and accessible to teams from either

side. The new buildings are heated by steam and provided with city water and fire hose. When fully equipped they will accommodate about one hundred students in class work at one time. The grading for foundations, and the larger part of the wood work and painting, were done by students.

LIBRARY.

The Library occupies the north wing of the main building, second floor. It now contains 7000 volumes, with numerous pamphlets, maps, charts, etc. Shelves are provided for 14,000 volumes, with room for expansion.

The alcoves are separated from the library hall by an iron railing; and only advanced students are permitted to enter and to have direct access to the shelves. The general reference works, however, are outside the railing.

The Dewey decimal system of classification and the Cutter book-numbers are used, thereby simplifying, to a great degree, the circulation of books and the general care of the Library.

The Reading Room contains, on Athenæum newspaper files, nearly all the papers published in Arkansas, and also the St. Louis and Memphis dailies.

The leading high-class periodicals (including magazines, reviews and various technical monthlies) are regularly taken, and are bound as they accumulate. This vast fund of current literature is rendered more useful and accessible by "Poole's Complete Index" to periodic literature from 1802 to the present time.

Among the works of general reference in the Library are all the best encyclopedias and dictionaries.

The card catalogue in preparation will facilitate reference and will greatly increase the usefulness and popularity of the Library.

The privileges of both Library and Reading Room are free to all students.

THE ARMORY.

The Armory is a large, well lighted room, 60x80 feet, situated in the basement of the north wing of the main building. It is substantially fitted up with arm racks, compartments for equipments, and all other necessary conveniences. Two other rooms are fitted up for use of the Military Department, and are used for band-room and store-room.

The equipment of the Department consists of two hundred and seventy-five Springfield Cadet Rifles of the same model as those used at the United States Military Academy at West Point, two hundred and seventy-five sets of infantry equipments, twenty-one cadet swords, West Point pattern, National color, flags, signal equipment, tents, ammunition, etc., and a superior set of band instruments.

The arms and equipments are furnished the University by the General Government, and the tents are loaned the Department by the State. The other equipments have been purchased by the University and belong to the Military Department. The equipment is sufficient for a batallion of three hundred and ninety-five cadets.

MUSEUMS.

The University has two Museums which are of great value in furnishing materials for the illustration of scientific studies and of the industrial arts.

MUSEUM OF NATURAL HISTORY.

The Museum occupies the fourth floor of the north wing of the main building. Adjoining the corresponding room in the south wing are two rooms, one being used for the storage of alcoholic specimens, the other for taxidermy. The collections in the Museum at present comprise the following :

200 birds and mammals, 80 species.

200 reptiles and amphibians, 40 species.

1500 fishes, 350 species.

1000 insects and other invertebrates, 200 species.

18 skeletons.

3500 plants, 1500 species.

1500 fossils, 230 species.

400 minerals, 200 species.

150 specimens of rocks representing about 100 varieties of building and ornamental stones.

A few archæological specimens, also a few anatomical and physiological preparations.

Except fishes, invertebrates, minerals, and fossils, most of our collections are from Arkansas.

Professor Meek has deposited in the Museum his private collection of about 250 species, consisting mostly of the lower vertebrates.

Major Earle has deposited in the Museum his large collection of minerals, fossils, war curios, etc.

This collection was formerly deposited in Cane Hill College.

Our aim is to make the Museum of more practical and educational value, and to this end we invite the co-operation of the people of the State in adding to our collections in one or more directions indicated below:

1. An exhibition of valuable rock materials used in construction, architecture, and the arts.
2. An exhibition of native ores, with specimens illustrating the metallurgy of useful metals.
3. Collections of plants and animals of the country, including fossil species.
4. Historical and archæological collections.

The Museum will gratefully acknowledge donations of various objects, and the donors may be sure that anything of value sent to it will be carefully preserved and duly credited to the donor. Collections in the hands of private parties are likely to be soon scattered or spoiled through improper care and handling. The Museum is now prepared to receive collections on deposit, and to preserve and display them under the owner's name until called for. In this way owners of interesting collections are usually much more certain of having their collections permanently preserved, and the collections will be seen by more people and become more useful.

Through the kindness of the Frisco and Eureka Springs Railways the curator has been much aided in making collections in northwestern Arkansas.

While our Museum is most important on account of its educational value, at the same time it

serves an important purpose in representing the resources of this State. Any donations or aid in making collections for the Museum will be highly appreciated.

INDUSTRIAL MUSEUM.

Among the facilities for instruction contained in the equipment of the University, may be mentioned :

A Dean steam pump with air chamber, water and steam cylinders, and valve chambers sectioned, so that a student may see the working parts.

A Cameron steam pump with the steam cylinders sectioned.

A Blake steam pump in full working order.

Two small horizontal, and one vertical steam engine made by the students in the shop.

A fire hydrant in working order.

A set of three successive portions of plate from a boiler showing effect of scale in producing overheating and bagging.

Samples of articles of manufacture form a large part of the collection, and are found to be of great service in acquainting students with the construction of such articles. Among these may be mentioned link belting, steampipe covering, grease cups, injectors in sections, water meters, insulated wire, lead cables, and lubricating oils. Models of a large number of machines of various kinds are also in the collection.

LABORATORIES.

In the laboratories of the University opportunities are afforded for practical instruction in chem-

istry, mineralogy, physics, botany, zoology, entomology, horticulture, and in civil, mechanical and electrical engineering.

CHEMICAL LABORATORIES.

The laboratories for chemical work are four in number and are situated in Science Hall. The Laboratory of General Chemistry is furnished with desks capable of accommodating thirty-five students. Each desk has a cupboard and two drawers, and is provided with gas and water. The Qualitative Laboratory has desks for sixteen students. Each desk is provided with suitable conveniences for taking care of apparatus and is supplied with all the common reagents. The room is provided with a hood and other equipments usually found in qualitative laboratories. The Quantitative Laboratory has suitable accommodations for eight students and, beside the usual equipments, a Blake ore crusher and an assay furnace. Adjoining the Quantitative Laboratory is the weighing room, which contains two of Becker's best analytical balances, besides a number of less accurate instruments suitable for weighing large quantities of chemicals. The store-room contains all the apparatus and chemicals. The room is in charge of an assistant, who gives out the supplies and keeps the books. This room contains the apparatus for preparing distilled water and has also some space for laboratory work.

MINERALOGICAL LABORATORY.

The work in mineralogy is done in the Qualitative Chemical Laboratory. This arrangement is con-

venient, because the students of this subject also study qualitative analysis. A suitable supply of minerals is provided for study.

PHYSICAL LABORATORY.

The Physical Laboratory is a room 20x40 feet and is provided with large tables suitable for use in performing experiments in general physics and physical measurements. It has also two pillars built up from the ground and independent of the rest of the building for the accommodation of delicate instruments which would otherwise be disturbed by the vibrations of the floor. The store-room of physical apparatus is supplied with instruments suitable for illustrating the principles of physics and for the use of students in practical work.

BIOLOGICAL LABORATORY.

The Biological Laboratory will accommodate about fifty students. It is well equipped with microscopes, microtomes, micro-chemical reagents, and the special apparatus for bacteriological work. A large aquarium furnishes means for the preservation of living animals for classes in zoology. All the apparatus necessary for the collection, mounting and preservation of plants and insects is supplied in abundance. Each table is fitted with gas and distilled water, and each student is supplied with all the chemicals and apparatus needed in botanical and zoological dissections, and in the hardening, sectioning, staining, and mounting of material for histological work. Within the last year a thoroughly equipped

dark-room, for photographic and micro-photographic work, an entomological laboratory for advanced students, and a complete set of anthropometric apparatus have greatly increased the facilities for thorough teaching of the natural sciences.

GEOLOGICAL LABORATORY

This Laboratory is provided with aneroid barometers, compasses, levels, pedometers, etc., for field work, and the necessary drawing apparatus for the construction of geological sections and for making geological maps. It also contains apparatus for grinding sections of rock for microscopic examination, and a petrographic microscope. The paleontological collections contain fossils characterizing the different geological ages, being especially rich in coal plants.

ENGINEERING LABORATORY.

The boilers generating steam for heating and power also furnish practice in determining the amount of steam made for each pound of coal burned. The amount of moisture in the steam is also tested by a calorimeter constructed in the shops. A feed pump and an injector are so arranged that comparative trials may be made for efficiency as boiler feeders. The engine which runs the shops and electric light plant is used to furnish practice in measurement of power from indicator cards and the pony brake. During the session of 1892 a series of tests were made to determine the water consumption of the engine per horse power per hour, in

which the weight of steam used was determined by condensing the exhaust in a feed water heater at atmospheric pressure, and weighing the amount delivered. In the fall of 1893 a 30-horse power Reynolds-Corliss engine was installed in the main laboratory where it is used to drive the dynamos, testing machine, etc. It has proved to be of the greatest service in experimental work, and especially in valve setting.

A Riehle testing machine, run by a 10-horse power motor and capable of exerting a pull of pressure of 60,000 pounds, has been installed and used in experimental work upon the materials used in buildings, bridges, and machinery. A practical application has been made in determining the tensile strength of the steel plates used in the two 30-horse power boilers for the Branch Normal shops, and the 60-horse power boiler for the Arkansas Industrial University shops.

A 2,000-pound cement testing machine is used to determine the tensile strength of various cements, and their resistance to crushing. A saw for stone cutting has been designed and constructed for the purpose of cutting out specimens for tensile and crushing tests.

ELECTRICAL LABORATORY.

The Electrical Laboratory affords excellent facilities for experimental work with practical dynamo electric machines. In the laboratory will be found the leading types of machines for arc and incandescent lighting and for power; constant current and constant potential motors, and generators, represent-

ative of the different methods of power transmission; potentiometers for standardizing measuring instruments; Weston and other voltmeters and ammeters; electro-dynamometers; galvanometers of various types—sine, tangent, reflecting, Deprez, and D'Arsonval; magnetometers; standard resistance coils and bridges; absorption dynamometer and a Kelvin balance.

The excellent supply of apparatus enables the student to carry on a very wide range of experimental work, and to attain practical efficiency in operating and testing electrical machinery and instruments.

SHOP EQUIPMENT.

The present equipment is incomplete, consisting, for the wood shop, of a 12-inch buzz planer, a circular saw, and two 12-inch wood lathes, beside small tools and work benches; for the foundry, of an 18-inch Colliau cupola and moulder's tools; for the blacksmith shop, of a portable forge, several anvils and a large number of small tools; for the machine shop, of a 14-inch engine lathe, 20-inch drill press, pipe fitting and other bench tools. A 35-horse power Westinghouse compound engine provides power for running the machinery, and exhaust steam for the heating pipes of the new building. It is hoped that through the liberality of the next Legislature the equipment as planned can be completed, which will render this department creditable to the University and the State, and competition with older and stronger engineering schools more successful.

The Boiler Room contains two 75-horse power return tubular boilers, set in a three-travel furnace.

These are used for heating the main building and running the shops. There are also two exhaust heaters, a duplex feed pump, and a pair of tanks, holding about 200 gallons each, for convenience in accurately measuring water used in boiler tests and other experimental work.

DRAWING ROOM.

The equipment includes the usual tables and stools; and among the special apparatus and instruments may be mentioned the planimeter, pantograph, blue-print frame, traverse table, odontograph, slide rule, sets of railroad and machine curves, roof pitches, etc. A blue-print room has recently been fitted up with complete facilities for the details of the blue-print process. The room is also being provided with photographic apparatus which will be used to prepare lantern slides and prints illustrating various branches of engineering.

SURVEYING EQUIPMENT.

For the work in railroad, land, and city surveying, the equipment furnishes chains, tapes, plumb bobs, a Locke level, aneroid barometer, sextant, Y level, transits with solar attachment, plane table, etc. The surrounding country also offers problems in most of the varieties of work which meet the practical surveyor. Each year, during the summer, a party of engineering students go into camp one week for practice in surveying and locating railway lines.

General Information.

REQUIRED, ELECTIVE, AND OPTIONAL STUDIES.

Each student must have not less than fifteen recitations, or their equivalent, per week; two hours of laboratory, shop, or farm work, drawing, or sight reading, are counted as equivalent to one hour of recitation. When fewer than fifteen recitations per week, or their equivalent, are specified in any course, the student must elect studies to supply the deficiency. Students known to be in ill health or having physical defects which interfere with their studies, are sometimes allowed less than fifteen recitations. Electives taken from the studies of a class one year below have full value; but, if more than one year below, their value will be fixed by the Faculty. Students are not allowed to take additional studies to exceed the equivalent of twenty recitation hours in all (exclusive of military work), except by permission of the Faculty.

SPECIAL STUDENTS.

Persons who desire to pursue studies in one of the colleges of the University and do not desire to become candidates for a degree, will be admitted on the following conditions:

1. In general all persons under 21 years of age must pass the entrance examinations required of candidates for some degree, as described on pages 32 to 35.

2. Persons over 21 years of age must show that they have a good knowledge of English and are otherwise prepared to pursue profitably the studies they may desire to pursue.

Should a student who enters under the preceding provision (2) subsequently become a candidate for graduation, he must then pass all examinations for admission required of such candidate.

CLASSIFICATION OF STUDENTS.

A student is enrolled as a member of the highest class with which he has nine recitations or their equivalent per week, provided he be pursuing in class all the lower studies in his course which have not been completed.

EXAMINATIONS.

1. Examinations, chiefly in writing, are held near the end of each term. The grades are determined by combining the values of the daily recitations and of the examinations, and are divided into five groups, as follows: "Excellent" (E); "Good" (G); "Fair" (F); "Poor" (P); "Bad" (B). A grade not lower than "Fair" is required for a "pass," which is the equivalent of about 75 per cent. At the end of each term a report is made to the parent or guardian of each student showing his progress, general demeanor, etc.

2. If a student has failed in any study, he may nevertheless be allowed to take up the next study in advance, provided he be deemed by the Professor in charge of the department to which such study belongs, not incompetent to pursue it; but he will be required to pass a satisfactory examination

in the study in which he failed, or take it up with the next class.

3. If a student has proven competent to continue his advanced work, but has not completed all the preceding studies in his course, he must resume the latter, and if he be found to be overworked, he will be required to drop a part of his advanced work.

HONORS.

Students who have attained grade "E" in work aggregating 55 hours per week (counted on the basis of a four years' course), are granted degrees "with special distinction."

Students who have attained grade "E" in work aggregating 35 hours per week, or grade "E" or "G" in work aggregating 55 hours per week, are granted degrees "with distinction."

LITERARY SOCIETIES.

Material changes have been recently made in the organization of the literary societies, and their meetings, which are held weekly, afford enlarged opportunities for improvement in declamation, composition, debate, etc. Renewed interest in this valuable means of culture is shown by a number of students.

UNIVERSITY MAGAZINE.

The "Ozark," successor to the "University Magazine," is a monthly periodical published by a stock company and edited by a committee of students. It is sent free to all the accredited schools and to such other schools in the state as may desire to have it.

LECTURE COURSE.

The past year has been one of the most prosperous in the short history of the Lecture Association. The following list of entertainments is perhaps the best yet furnished by the managers :

Swedish Quartette, March 13, 1895.

Max O'Rell, "Her Royal Highness, Woman," April 13, 1895.

W. J. Bryan, "Bimetallism," May 25, 1895.

Geo. R. Wendling, "The Man of Galilee," October 14, 1896.

Bishop R. N. Pierce, "Agnosticism Unscientific," November 3, 1896.

P. S. Henson, "Fools," November 21, 1896.

Pres't E. B. Andrews, (Brown University), "Lee and Von Moltke," December 21, 1896.

Robert L. Taylor and Alfred Taylor, "Yankee Doodle and Dixie," February 6, 1896.

Brooks and Macy, Recitations and Character Delineations, March 17, 1896.

A. L. Peterman, "School Life," March 27, 1896.

RELIGIOUS EXERCISES.

Religious exercises are held regularly in the University Chapel at the beginning of each daily session. Students are required to attend.

The churches of Fayetteville cordially welcome the students to their Sunday schools and various meetings for prayer and religious instruction. The denominations represented in the City are Baptist, Presbyterian, Cumberland Presbyterian, Methodist, Protestant Episcopal, Christian, and Roman Catholic. Many of the students are actively engaged in the work of the different church societies and guilds. The Young Men's Christian Association

has commodious quarters in the South Dormitory, and a commendable interest is shown. A Bible class, has held meetings Sunday afternoon, and has been well attended.

ATHLETIC ASSOCIATION.

The purpose of this organization is to encourage the development of the physical man.

The Association as originally formed consisted of the A. I. U. Athletic Club, the A. I. U. Tennis Club, the A. I. U. Base Ball Club, and the A. I. U. Foot Ball Club; and it is further provided that if any other club, organized by the students of the University for the practice of any sport, game, or exercise not already represented by one of the members of the Association, shall make a written application for membership in the Association, and the said application shall be approved by the Governing Body of the Association, the petitioning club shall become a member of the Association with all the rights and privileges pertaining to such membership.

SALE OF ARDENT SPIRITS PROHIBITED.

By an act of the General Assembly of the State of Arkansas, approved March 6, 1875, it is unlawful for any person to sell or give any vinous or ardent spirits within three miles of the Arkansas Industrial University, unless it be prescribed by a regular practicing physician for medicinal purposes.

EXPENSES.

Matriculation, charged all new students . . . \$	5 00
Tuition per session, charged all except beneficiary students	10 00
Contingent fee, after first year	3 00
Tuition in Music and Art (see pages 85 and 86).	
Furniture for dormitory students, from \$6.00 to	15 00
Board in dormitory at cost, per month, from \$7 to	8 00
Board in private families, per month from \$10 to	15 00
Uniform suit, purchased by student, from \$13 to	16 00
Washing, per month, about	1 00

The necessary expenses for a student who wishes to live cheaply are:

Board in dormitory, 9 months, about . . . \$	72 00
Washing, 9 months, about	9 00
Furniture, first year only, \$6 to	15 00
Matriculation, first year only	5 00
Contingent fee, after first year	3 00

Total expenses first year, apart from books
and clothes, about \$ 101 00

Total expenses afterward, apart from books
and clothes, about \$ 81 00

Students leaving the University frequently sell
their furniture at a small reduction.

Rooms in the University dormitories are free,
but occupants provide their furniture, fuel and
lights. If there are not rooms enough for all, pre-
ference is given to Arkansas students. An officer

of the University is in charge of the building, and the rooms are inspected by the Faculty whenever deemed necessary.

Students boarding elsewhere are under the supervision of the President of the University and are allowed to board only at places approved by him.

BOARD FOR YOUNG LADIES.

There is at present no special residence for girls. They are assisted in finding board in respectable families; but the Faculty is not so situated as to exercise constant supervision over them out of college hours. Parents at a distance who send a daughter to the University, should therefore be well satisfied as to her discretion, or else should place her under control of the family with whom she boards. The following ministers, pastors of the local churches named, kindly offer their services in assisting to secure suitable boarding places for young ladies: Rev. S. W. Davies, Presbyterian; Rev. J. A. Anderson, Methodist; Rev. F. T. Charlton, Cumberland Presbyterian; Rev. N. M. Ragland, Christian; —————, Baptist; and Rev. J. J. Vaulx, rector of St. Paul's Church (Episcopal).

ARRIVAL OF STUDENTS.

Students, on arriving at Fayetteville, should report at once to the President of the University, that they may be promptly enrolled and assigned to classes. Needless delay in reporting or unseemly conduct may justify exclusion from the University.

CONDITIONS OF ADMISSION TO THE UNIVERSITY.

Applicants for admission should present certificates of honorable discharge from the school last attended, or furnish other evidence of general good conduct.

PREPARATION FOR THE FRESHMAN CLASS.

1. *English.* Raub's Rhetoric, or a full equivalent; a composition of 200 to 300 words, correct in spelling, punctuation, paragraphing, and grammar, on a subject announced at the time of the examination. In 1896-'97, the subject will be taken from Scott's *Ivanhoe*, or Shakespeare's *Tempest*, or Julius Cæsar.

In 1897-'98 the subject of composition will be taken from Scott's *Talisman* (Ginn & Co.), or from Shakespeare's *Julius Cæsar*, or *Midsummer Night's Dream* (Maynard & Co.)

Students, preparing for the Freshman class, should have annotated editions of these books and use constantly an unabridged dictionary. They should write as many as six compositions on subjects taken from these books, and should make a thorough review a short time before examination. More than half the failures are in composition and meters.

2. *Arithmetic.* The examination will be taken from Wentworth's *Grammar School Arithmetic*, the whole of which is required. Teachers preparing candidates for entrance should, in teaching arithmetic, require them to analyze every example capable of analysis, or give a thorough course in mental

arithmetic. Students who are not quick at analysis in arithmetic usually make poor progress in higher mathematics.

3. *Algebra*. To Quadratic Equations involving two unknown quantities, with special attention to factoring, the theory of exponents, and radicals. The examination will be taken from Wentworth's *Algebra*. In 1896-'97 *Algebra* through Quadratic Equations will be required.

4. *Plane Geometry*. The first four books of Wentworth's *Geometry*.

5. *History*. The examination will be taken from Chambers's *History of the United States*, and from Barnes's *General History*.

6. *Geography*. Any complete manual, such as Maury's or Frye's, will give the preparation, if thoroughly mastered. Special attention is given to the geography of the United States and of Arkansas.

7. *Physiology*. Martin's *Human Body*, Briefer Course.

8. *Latin*. Collar & Daniell's *Beginner's Latin*, Cæsar's *Gallic War*, four books, with questions on Grammar and on the subject matter, military equipment, etc. Harper & Tolman's *Cæsar* is recommended. Latin is not required for admission except to the College of Liberal Arts or to the Normal School.

Candidates for the higher classes, or for the Freshman Class after beginning of session, will be examined also in subjects passed over by the class.

Each student should come prepared for all the studies in some one class. If he is behind in one or more studies, he becomes irregular, and is necessarily

subject to many inconveniences, though he may be admitted, and classified according to his attainments.

ORDER OF EXAMINATIONS FOR ADMISSION.

Wednesday, September 16.—9 a. m., Registration of students; 1 to 4 p. m., Geometry and Physiology.

Thursday, September 17.—1 to 4 p. m., Algebra, Geography.

Friday, September 18.—9 to 12 m., Arithmetic; 1 to 4 p. m., Latin.

Saturday, September 19.—9 to 11 a. m., English Grammar and Analysis; 11 to 12 m., English Composition, Reading; 1 to 4 p. m., U. S. History, General History.

EXAMINATIONS AT PLACES OTHER THAN FAYETTEVILLE.

Students living more than a hundred miles from the University may obtain special local examinations two weeks before the beginning of each session. The questions will be sent to the principal of any school or to any examiner, provided such officer makes his application not later than one month before the beginning of a session. The questions must be submitted by the principal or county examiner to the candidate under the usual restrictions of a written examination, and the questions and answers must be returned by the same officer to the University with his endorsement that the examination was properly conducted.

ACCREDITED SCHOOLS.

Admission on Certificates.—Any high school or academy whose course of instruction covers all the

branches requisite for admission to the Freshman class of the University may be placed upon the list of accredited schools. Upon application from the principal of any high school or academy, an officer of the University will be sent as soon as possible to examine the course of study and methods of teaching. If his report is favorable, the school will be placed upon the accredited list, and its graduates will be admitted to the Freshman Class without examination. Students of accredited schools who may not be graduates will be excused from examination on subjects required for admission to the University upon certificates of proficiency in such studies from the principal. A school once accredited will retain that relation until its administration is changed, or until a notification that the work is unsatisfactory is received from the University. Upon a change of administration, an application to be continued upon the list of accredited schools should be forwarded to the University. Such request may be granted without a new examination if the authorities can assure themselves that no prejudicial changes in the courses of study or in the thoroughness of instruction will be made.

The University will do all in its power to bring about that close and cordial relation which should bind together the various departments of the educational system of the state.

LIST OF ACCREDITED SCHOOLS.

Fort Smith High School, Principal, B. W. Torreyson.
Rogers Academy, Principal, J. W. Scroggs.
Little Rock High School, Principal, Lewis Rhoton.
Marianna Institute, Principal, T. A. Futrall.

Lonoke High School, Principal, J. J. Doyne.
 Pine Bluff High School, Principal, Ruth McBride.
 Judsonia High School, Principal, W. W. Condray.
 University Academy, Columbia, Mo., Principal, Jno.
 W. Wilkinson.
 Paris High School, Paris, Tex., Principal, J. G. Wooten.
 Hinemon University School, Monticello, Ark., Principal,
 J. H. Hinemon.
 Garnett High School, Garnett, Kan., Prin., F. McClellan.
 Little Rock Academy, Principal, W. H. Tharp.
 Helena High School, Principal, W. M. Rivers.
 Hot Springs High School, Principal, Geo. B. Cook.
 Amity High School, Principal, S. M. Samson.
 Waldron High School, Principal, H. J. Hall.
 Harrison High School, Principal, C. L. Scott.
 Neosho Public School, Principal, J. M. Stevenson.
 Arkansas Normal School, Sulphur Rock, Ark., Principal,
 J. W. Decker.
 Paris Academy, Principal, G. S. Minmier, Paris, Ark.
 Dardanelle High School, Principal, P. L. Burrow,
 Dardanelle, Ark.
 Russellville High School, Principal, E. L. Gatewood,
 Russellville, Ark.
 Eureka Springs High School, Principal, C. S. Barnett,
 Eureka Springs, Ark.

APPOINTMENT OF BENEFICIARIES.

An Act of the General Assembly of the State of Arkansas "to regulate the appointment of beneficiary students in the Arkansas Industrial University and to amend section 4088 of the Digest of the Statutes of 1894," approved April 19, 1895, reads as follows:

Section 4088.—"It shall be the duty of the Board of Trustees to apportion the number of beneficiaries who shall be admitted as students in the University without tuition, among the several counties of the State, according to population, and to notify the County Judge of each county of the number apportioned to the county at least two months prior to the beginning of each regular annual session of the school; and it shall be the duty of the County Judge to appoint from the actual residents of the county the number of beneficiaries to which it may be

entitled, a preference being given to those noted for diligence and proficiency in study; and the appointment so made shall be entered of record. If the Judge of any county shall fail to appoint its quota of beneficiaries, or if those appointed shall fail to attend, the President of the University shall appoint such beneficiaries to the full number authorized by law from other counties having their full quota; *Provided*, Such appointments shall be vacated on application of the County Judge of a county so failing to fill its quota."

NUMBER OF BENEFICIARIES.

The number of beneficiaries fixed by the Board of Trustees is one thousand, distributed to the counties of the State in proportion to the population.

There is also one "Honorary Scholarship" to each county, to be elected for superior merit and proficiency, from the public schools of each county, according to Section 2, of act of July 23, 1868.

All the beneficiary students should be present at the opening of the first term, and unnecessary delay will lead to the forfeiture of their appointments.

QUALIFICATIONS.

The attention of County Judges is called to the following requirements for admission to the lowest preparatory class:

1. Wentworth's Grammar School Arithmetic.

2. Maxwell's Elementary Grammar and Comp'n.
3. Maury's or Frye's Complete Geography, or an equivalent.
4. The intelligent reading of the Fifth Reader.
5. The spelling of any words in the Fifth Reader.

It is *highly important* in making appointments to *note carefully these requirements; otherwise students coming to the University unprepared incur needless expense and go away disappointed and often discouraged.*

FORMS OF APPOINTMENT.

Students who have been appointed beneficiaries must bring evidence of appointment in the following form, to be sent by the Judge of the County Court, in accordance with the sixth section of an act approved March 6, 1875.

[Form 1—Appointment.]

No. [To be given to the Student]

TO WHOM IT MAY CONCERN:

I hereby appoint of County, State of Arkansas, as a beneficiary to the Arkansas Industrial University.

Given under my hand this day of 189.....

Send a notice like the following to the President of the University, and one to the Secretary of the Board of Trustees, at Fayetteville:

[Form 2—Notice to President of University.]

..... Arkansas, }

To the University,

I hereby notify you that I have this day appointed of County, State of Arkansas, a beneficiary of the Arkansas Industrial University.

Given under my hand this day of 189.....

APPORTIONMENT OF BENEFICIARIES.

COUNTIES.		COUNTIES.	
Arkansas.....	10	Lee.....	16
Ashley.....	13	Lincoln.....	12
Baxter.....	7	Little River.....	6
Benton.....	24	Logan.....	19
Boone.....	15	Lonoke.....	15
Bradley.....	8	Madison.....	15
Calhoun.....	7	Marion.....	10
Carroll.....	16	Miller.....	12
Chicot.....	12	Mississippi.....	9
Clay.....	13	Monroe.....	12
Clark.....	15	Montgomery.....	7
Cleburne.....	8	Nevada.....	17
Cleveland.....	10	Newton.....	6
Columbia.....	19	Ouachita.....	15
Conway.....	16	Perry.....	6
Craighead.....	8	Phillips.....	28
Crawford.....	11	Pike.....	3
Crittenden.....	11	Poinsett.....	7
Cross.....	6	Polk.....	3
Dallas.....	9	Pope.....	19
Desha.....	11	Prairie.....	10
Drew.....	15	Pulaski.....	45
Faulkner.....	17	Randolph.....	12
Franklin.....	18	Saline.....	11
Fulton.....	8	Scott.....	19
Garland.....	11	Searcy.....	7
Grant.....	8	Sebastian.....	28
Greene.....	9	Sevier.....	8
Hempstead.....	24	Sharp.....	12
Hot Spring.....	10	Stone.....	8
Howard.....	12	St. Francis.....	10
Independence.....	21	Union.....	16
Izard.....	14	Van Buren.....	11
Jackson.....	15	Washington.....	30
Jefferson.....	29	White.....	21
Johnson.....	15	Woodruff.....	12
Lafayette.....	6	Yell.....	18
Lawrence.....	10		

ABSENCES AND WITHDRAWALS.

Absences from the University during the session are not permitted except for valid reasons. The right of a parent to withdraw his son at any time, without reason assigned, is recognized; but without so withdrawing him, he cannot relieve him of the obligation to attend to his duties at the University. The incidental absences of students during the session are exceedingly disadvantageous, both to themselves and to the University. While, therefore, the Faculty permit them, in cases where propriety or urgent necessity seems to make them unavoidable, they hold it to be a duty to inquire into the reasons for which the permission is solicited.

Parents or guardians who wish to withdraw their children or wards from the University should write to the President stating their wishes. No honorable discharge will be given to a student under age who is unable to produce the written application of his parent or guardian for his withdrawal, nor will an honorable discharge be given to a student under censure of any kind, whether for neglect of duty or other cause, even though he may have the consent of his parent or guardian for his withdrawal from the University.

THE AGRICULTURAL EXPERIMENT STATION.

The National Government established the Experiment Station as a department of the University in 1887, and maintains it to investigate agricultural problems for the aid of the farmers of the State.

The work of the Experiment Station is divided into the special lines of agriculture, horticulture, chemistry, and animal and plant diseases. Specialists are employed in each line, and experiments are made both in the field and laboratory in the improvement of soils, the rotation of crops, diseases of plants and domestic animals, in fertilizers, the value of stock foods, dairying and other matters. Students interested in agricultural subjects are given opportunity to observe the experiments and to acquaint themselves with the work of the Station in its various departments; the bulletins are also available for their use. The experiments and their results are published in bulletins which are sent free to farmers, stock raisers, and fruit growers of the State, and to others interested in agriculture.

Those who desire the Station bulletins, should apply for them to the Director of the Station, Fayetteville, Ark. One application is sufficient to obtain all future bulletins, if desired.

MILLITARY DEPARTMENT.

The head of this Department is an officer of the United States Army detailed by the War Department for duty at the University.

All male Collegiate students are required to take the Theoretical Course, and all male students over 15 years of age are required to take the Practical Course in Military Science, the latter including infantry drill, target practice, camping, guard duty and various other exercises, the course covering the entire period of the student's stay at the University. This instruction is in accordance with the Act of

Congress donating lands for the establishment of the University, which requires that "Military Science and Tactics" shall be taught in addition to the usual course of study.

The system of practical instruction closely follows that used in the United States Army. It contains a course of gymnastic exercises for the development and improvement of the arms, chest, legs, hands and feet, which is unexcelled. Besides being the perfection of physical training, this instruction has many advantages mentally. The necessity of being alert, listening for each word of command, and acting promptly on it, quickens the wit and cultivates the habit of fixing the attention and concentrating the thoughts. In addition to all this, it inculcates in the student a respect for authority and discipline which is equaled by no other system. This enables the University to send out annually young men who are fully able to officer the various organisations of the State Guard.

The cadets are organized into a Battalion composed of Staff, Band, and five Companies. The officers and non-commissioned officers of the Battalion are selected from those students who are most proficient in their drill and military studies, and most exemplary in their deportment, the Major, Captains and Lieutenants being taken, usually, from the Senior and Junior Classes, and Sergeants and Corporals from the Sophomore and Freshman Classes. An office in the Battalion is one of merit and distinction, and any unbecoming conduct subjects the appointee to reduction to the ranks.

A competitive drill is held each year, about Commencement, and to the winning Company is awarded the honor of carrying the National Color for the ensuing year. At the last competition, Company "A," commanded by Captain S. L. Morley, carried off the prize, and to T. B. Martin, Jr., was awarded the gold medal for the best drilled cadet. The Battalion will be taken into camp at such time as may be determined upon by the proper authority.

In connection with the Battalion, a Band of not exceeding twenty pieces is maintained. It receives the best instruction obtainable, practices three hours per week and performs at all military ceremonies.

The three students of the Senior Class having the highest grade of merit in this department, will be reported to the Secretary of War, and their names will be recorded in the Adjutant General's Office and published in the Army Register for that year. The President of the United States, in appointing officers from civil life, gives preference to those whose names are so recorded. Cadet officers, on graduation, are brevetted in the State Guard with the rank held by them in the Cadet Battalion at the date of their graduation, and recommendations of the Commandant of Cadets as to special military qualifications of graduates of the military course are filed in the office of the Adjutant General of the State and considered in appointing commissioned officers of the State Guard.

A neat uniform of gray cloth, with brass buttons and black trimmings, is required to be worn by all cadets at drill. The uniform, complete, costs.

about \$16.00, and with ordinary care will last an entire year.

ORGANIZATION OF THE BATTALION FOR THE YEAR 1895-'96

Elias Chandler, First Lieutenant, 16th U. S. Infantry,
Commandant of Cadets.

FIELD AND STAFF OFFICERS.

Cadet Major.....J. H. Davis.
Cadet First Lieutenant and Adjutant.....E. L. Spencer.
Cadet First Lieutenant and Quartermaster...J. L. Redus.

NON-COMMISSIONED STAFF.

Cadet Sergeant Major.....M. L. Bell.
Cadet Quartermaster Sergeant.....E. M. High.
Cadet Color Sergeant.....W. M. Fishback.

BAND.

Cadet First Lieutenant, Commanding the
Band.....W. H. Wood.
Cadet Principal Musician and Band Leader..I. F. Stewart.
Cadet Principal Musician and Assistant
Band Leader.....H. A. Melton.
Cadet Drum Major.....C. G. Price.

COMPANY "A" (COLOR).

Cadet Captain.....W. E. Pruett.
Cadet First Lieutenant.....Dane McNeill.
Cadet Second Lieutenant.....S. J. Taylor.
Cadet First Sergeant.....J. R. Howard.
Cadet Sergeant.R. N. Graham.
Cadet Sergeant.....C. D. Frierson.
Cadet Sergeant.....Wm. P. Johnson.
Cadet Sergeant.....J. L. Horner.
Cadet Corporal.....W. W. Beavers.
Cadet Corporal.....W. E. George.
Cadet Corporal.....J. A. Brown.
Cadet Corporal.....J. M. Davis.

COMPANY "B."

Cadet Captain.....E. K. Braly
Cadet First Lieutenant.....A. B. Crozier.

Cadet Second Lieutenant.....	W. H. Askew.
Cadet First Sergeant.....	W. A. Ross.
Cadet Sergeant.....	H. Y. Fishback.
Cadet Sergeant.....	H. R. Brown.
Cadet Sergeant.....	A. C. Seawel.
Cadet Sergeant.....	W. H. Rattenbury.
Cadet Corporal.....	T. C. Trimble.
Cadet Corporal.....	A. L. Mount.
Cadet Corporal.....	E. T. Brown.
Cadet Corporal.....	F. J. Darragh.

COMPANY "C."

Cadet Captain.....	A. J. McDaniel.
Cadet First Lieutenant.....	N. G. Turner.
Cadet Second Lieutenant.....	T. H. Batten.
Cadet First Sergeant.....	R. Shaha.
Cadet Sergeant.....	F. M. Groves.
Cadet Sergeant.....	W. T. Chamness.
Cadet Sergeant.....	F. J. Wassell.
Cadet Sergeant.....	F. B. Kirby.
Cadet Corporal.....	John Randolph
Cadet Corporal.....	J. H. Parker.
Cadet Corporal.....	J. B. Burton.
Cadet Corporal.....	W. V. Boatwright.

COMPANY "D."

Cadet Captain.....	J. L. Moore.
Cadet First Lieutenant.....	D. C. Morrow.
Cadet Second Lieutenant.....	C. D. Adams.
Cadet First Sergeant.....	James Mitchell.
Cadet Sergeant.....	R. E. Philbeck.
Cadet Sergeant.....	B. E. Turner.
Cadet Sergeant.....	D. P. Holmes.
Cadet Sergeant.....	R. H. Huie.
Cadet Corporal.....	G. H. Adams.
Cadet Corporal.....	C. M. Nichol.
Cadet Corporal.....	W. C. Hudson.
Cadet Corporal.....	W. L. Goodwin.

COMPANY "E."

Cadet Captain.....	T. B. Martin.
Cadet First Lieutenant.....	George Nicholls.
Cadet Second Lieutenant.....	G. H. Askew.
Cadet First Sergeant.....	H. D. Moore.
Cadet Sergeant.....	F. L. Dengler.
Cadet Sergeant.....	W. R. Buffington.
Cadet Sergeant.....	A. B. Cory.
Cadet Sergeant.....	J. L. Bentz.
Cadet Corporal.....	G. B. Wood.
Cadet Corporal.....	W. G. Parker.
Cadet Corporal.....	G. P. Leatherman.
Cadet Corporal.....	J. P. Randolph.

Organization of the University.

The following are the colleges, schools, and courses :

I. AT FAYETTEVILLE.

1. *The School of Agriculture.*
Farmers' Course.
2. *The College of Mechanic Arts and Engineering.*
 - (a) Course in Mechanical Engineering.
 - (b) Course in Civil Engineering.
 - (c) Course in Electrical Engineering.
 - (d) Short Course in Electrical Engineering.
 - (e) Trades Course.
3. *The College of Science.*
 - (a) Course in Chemistry.
 - (b) Course in Botany.
 - (c) Course in Zoology.
 - (d) Course in Entomology.
 - (e) Course in Geology.
4. *The College of Liberal Arts.*
 - (a) Course in Arts with Ancient Languages.
 - (b) Course in Arts with Modern Languages.
 - (c) Course in Arts with Mathematics.
 - (d) Course in Arts with History.
5. *The Normal School.*
Normal Course.
6. *The Graduate Courses.*
7. *The Preparatory Department.*
 - (a) Agricultural Course.
 - (b) Engineering Course.
 - (c) General Course.
8. *The Agricultural Experiment Station.*

II. AT LITTLE ROCK.

9. *The Medical School.*
 - (a) Preliminary Course.
 - (b) Course in Medicine.
10. *The Law School.*
Law Course.

III. AT PINE BLUFF.

11. *Branch Normal College.*
 - (a) Normal Course.
 - (b) Mechanical Course.

Departments of Instruction.

The arrangement of elective courses enables students to concentrate their work upon special lines or subjects, and each student is expected to complete the undergraduate studies of at least one language or science. The following rules for elective studies will be observed :

1. No study can be elected, unless the Professor in charge deems the student prepared to pursue it.

2. No elective study shall be changed before the end of the term.

No Professor shall be required to teach an elective course, unless three or more students pursue it.

The figure on the left is the number of the course ; that on the right is the number of recitation hours per week.

AGRICULTURAL DEPARTMENT.

A. E. MENKE, Superintendent of Agriculture.

JEROME MCNEILL, Professor of Horticulture.

W. B. BENTLEY, Associate Professor of Chemistry.

R. R. DINWIDDIE, Veterinarian.

W. F. BATES, Instructor in Agriculture.

1. *Veterinary Anatomy* 3

Lectures and laboratory work (first term).

Dr. Dinwiddie.

Required of Sophomores in Farmers' Course.

2. *Veterinary Science* 3

Lectures and demonstrations (second term).

Dr. Dinwiddie

Required of Sophomores in Farmers' Course.

3. *Horticulture* 4
 Class-room and practical work (first term).
Professor McNeill.
 Required of Sophomores in Farmers' Course.
4. *Advanced Agriculture* 2
 This course can be taken by those students only who have passed the preparatory course, and have some knowledge of chemistry and botany.
Professor Menke.
 Required of Sophomores in Farmers' Course.
5. *Stock Breeding* 3
 Class-room work on the principles of improvement and selection according to Warfield, Sanders and Powell.
 —————
 Required of Sophomores in Farmers' Course.
6. *Advanced Dairy Husbandry* 4
 Second term. The management of large dairies, the principles of scientific feeding, the economic production of dairy products and other related topics.
Mr. Bates.
 Required of Sophomores in Farmers' Course.

MECHANIC ARTS AND ENGINEERING.

- C. V. KERR, Mechanical Engineering, Superintendent Mechanic Arts.
 J. J. KNOCH, Civil Engineering.
 W. N. GLADSON, Electrical Engineering.
 MACK MARTIN, Machine Shop. Ass't Superintendent Mechanic Arts.
 F. P. NICHOLAS, Wood Shop.
 G. W. BASHAW, Forging and Founding.
 C. S. DUGGANS, Engineer.

MECHANICAL ENGINEERING, (M. E.)

1. *Shop Work*
 (a): *Woodworking*. Principles of carpentry and joinery; wood turning; pattern making; cabinet work. Sickel's exercises in wood turning. One year, eight hours per week.
Mr. Nicholas.

(b): *Founding*. Moulding; melting and pouring brass and iron; management of cupola. Bolland's Iron Founding. Half year, eight hours per week.

Mr. _____

(c): *Forging*. Management of fire; drawing; welding; riveting; and tempering. Half year, eight hours per week.

Mr. _____

(d): *Machinist Work*. Chipping and filing; turning; planing; milling; drilling; grinding, erection of machinery and millwrighting. Rose's Complete Practical Machinist. One year, eight hours per week.

Mr. Martin.

(e): *Stationary Engineering*. Steam fitting; cleaning and firing boilers; management of high speed and Corliss engines. Half year, four hours per week.

Mr. Duggans.

2. *Mechanical Drawing*

(a): *Freehand*. Outline drawing from models and machine parts; plans, elevations, sections, lettering, etc. One year, two hours per week.

Mr. Nicholas.

(b): *Instrumental Drawing*. Drawings of geometrical problems, machine parts, line shading and lettering. One year, two hours per week.

Associate Professor Knoch.

(c): *Practical Drawing*. Working drawings, titles, tracing, preparing and using blue print paper. One year, four hours per week.

Associate Professor Gladson.

3. *Trades Courses* 4

During the fourth year of the Trades Courses a student may choose for the subject of his shop work any one of the following:

(a) Carpentry and cabinet making.... Mr. Nicholas.

(b) Pattern making..... Mr. Nicholas.

(c) Founding..... Mr. _____

(d) Forging..... Mr. _____

(e) Machine Shops..... Mr. Martin

(f) Engine and boiler running..... Mr. Duggans.

4. *Elements of Mechanism* 3

Three hours per week, first term. Theory of motion and velocity ratios; designs of gear wheels, cams, link motions, trains of mechanism. Textbook: Stahl and Wood's Elements of Mechanism.

Professor Kerr.

Required of Juniors in Mechanical and Electrical Engineering Courses.

5. *Valve Gears* 3
 Three hours per week, part of second term. An analytical and graphical treatment of the plain slide valve, shifting eccentrics, link motions, radial, double and drop cutoff valve gears. Text-book: Peabody's Valve Gears.
Professor Kerr.
 Required of Juniors in Mechanical and Electrical Engineering Courses.
6. *Indicator Practice* 3
 Methods of using the steam engine indicator in determining horse power, setting valves and adjusting the governors. Three hours per week, part of second term.
Professor Kerr.
 Required of Junior Mechanical and Electrical Engineers.
7. *Drawing: Machine Design* 2
 A practical study of velocity ratios in mechanism, gears, cams, link work, fastenings, belt and rope gearing. Four hours a week through the year.
Professor Kerr.
 Required of Junior Mechanical Engineers.
8. *Drawing: Steam Engine and Boiler Design* . . 2
 A course in the study and design of boilers and steam engine parts, such as pistons, cross heads, frames, main bearings, fly wheels, valve gears, and governors. Through the year.
Professor Kerr.
 Required of Senior Mechanical Engineers.
9. *Steam Engine Regulation* 2
 Lectures. Two hours per week, first term. Discussion of the form and purpose of fly wheels; design of fly wheels as modified by stresses due high speed or sudden stoppage; weight of fly wheel, balance of reciprocating parts. Theory, construction, and adjustment of throttling, pendulum, and shaft governors; theory of coiled springs.
Professor Kerr.
 Required of Seniors in Mechanical Engineering Course.
10. *Mechanical Laboratory* 2
 Study of processes of blue printing and photography; gas analysis; calorific power of fuels; friction of belting; tests of lubricants; calibration of thermometers, gauges and indicators; planimeters and indicator cards. Engine and boiler trials.
Professor Kerr.
 Required of Juniors and Seniors in Mechanical Engineering Course.

11. *Steam Engines and Boilers* 3

Three times a week, second term. Elementary thermodynamics; types of simple and compound engines; valve diagrams and indicator cards; heat and combustion of fuels; types and care of boilers. Text, Kinealy.

Professor Kerr.

Required of Juniors in Engineering Courses.

12. *Statics and Dynamics* 5

Five hours per week part of second term. Forces; statics of a material point, of a rigid body, of a flexible cord; motion of a material point; moment of inertia; dynamics of a rigid body; work, energy and power; friction. Text-book: Church's Mechanics of Engineering.

Mr. Martin.

Required of Juniors in Engineering Courses.

13. *Strength of Materials* 4

Four hours per week, part of first term. Elementary stresses and strains, tension, compression, shearing, torsion, flexure of homogeneous prisms, continuous girders; flexure of long columns. Text-book: Church's Mechanics of Engineering.

Mr. Martin.

Required of Seniors in Engineering Courses.

14. *Hydraulics* 4

Four hours per week, first term. Fluid pressure; pressure in tanks and reservoirs; flotation; gaseous fluids; flow of liquids through pipes and orifices; dynamics of gaseous fluids; impulse and resistance of fluids. Text-book: Church's Mechanics of Engineering.

Mr. Martin.

Required of Seniors in Engineering Courses.

15. *Graphics* 1

Lectures. One hour per week, first term. Graphical arithmetic; force diagrams; moment of inertia; stresses in trusses and mechanism; graphical dynamics.

Professor Kerr.

Required of Seniors in Engineering Courses.

16. *Mechanical Refrigeration* 3

Three hours per week, first and second term. Study of fluids available; machinery and apparatus used in compression, and absorption systems; methods of freezing, cold storage; refrigeration from central stations. Lectures, recitations, and prescribed reading.

Professor Kerr.

Required of Seniors in Mechanical Engineering Course.

17. *Heating and Ventilating*.....3
 Three hours per week, part of second term. Principles of ventilation, systems of heating, piping, radiators, boilers, forced-blast systems, specifications.
Professor Kerr.
 Required of Seniors in Mechanical Engineering.
18. *Pumping Machinery*.....2
 Two hours per week, second term. Design, construction, and operation of pumps and pumping machinery, with special reference to water works service. Text-book: Barr's Pumping Machinery.
Professor Kerr.
 Required of Seniors in the Civil and Mechanical Engineering Courses.
19. *Turbines*.....2
 Two hours per week, second term. Action of a jet of water on a moving vane; impulse and reaction wheels; modern turbine, form, efficiency, and methods of regulation. Text-book: Trowbridge's Turbine Wheels; Wood's Reaction Motors; Lectures.
Professor Kerr.
 Required of Seniors in Mechanical and Electrical Engineering Courses.
20. *Locomotive Mechanism*.....2
 Two hours per week, first term. A study of locomotive boilers, cylinders, frames; valve motion and valve setting; various systems of compound locomotives; air brakes. Text-book: Reagan's Locomotive Mechanism.
Professor Kerr.
 Required of Seniors in Mechanical Engineering Course.
21. *Gas Engines*.....2
 Two hours per week, first term. History and present types of gas and oil engines; explosion in a closed vessel; the gas engine cycle; efficiency and adaptation of the gas engine. Text-book: Robinson's gas and Petroleum Engine.
Professor Kerr.
 Required of Seniors in Mechanical Engineering Course.

CIVIL ENGINEERING, (C. E.)

J. J. KNOCH, Associate Professor.

1. *Descriptive Geometry*.....2
 Recitations and practice two hours a week throughout the year. Text-book: Church's Descriptive Geometry.
 Required of Sophomores in the Engineering Courses.

2. *Surveying* 2

First and part of second term. Care, use and adjustment of instruments; use of chain, tape, compass, transit, solar attachment, level, sextant and plane table; land surveying, leveling, contouring, laws and instructions relating to surveys of the public domain. Text-book: Carhart's Surveying.

Required of Sophomores in Engineering and in Science, Course V.

3. *Field Practice* 2

Exercises in land, city, and topographical surveying.

Required of Sophomores in Engineering and in Science, Course V.

4. *Highways* 2

Two hours per week, part of second term. The location, construction, and maintenance of common, macadam, and Telford roads; brick, stone, wood, and asphalt pavements for city streets. Text-book: Spalding's Roads, Streets, and Pavements.

Required of Sophomores in Engineering Courses.

5. *Railroad Engineering* 2

Three hours per week first term, two hours second term. Preliminary surveys and location; transition curves, yards, and turnouts; estimates of earthwork and material used in construction; the economics of railway location and management. Text-books: Searle's Field Engineering, and Crandall's Transition Curve and Earthwork Computations, first term; Wellington's Economic Theory of Railway Location, second term.

Required of Juniors in Civil Engineering.

6. *Field Practice* 2

Location of curves, turnouts, and Y's; measurement of embankments and cuts and computation of volumes.

Required of Juniors in Civil Engineering Course.

7. *Railroad Survey* 12

One week, twelve hours per day. Actual field practice in reconnaissance, preliminary survey, and location.

Required of Juniors and Seniors in Civil Engineering Course and of Sophomores in all Engineering Courses.

8. *Drawing* 2

Pen and colored topography; profiles; topographical and railroad maps from actual surveys.

Required of Juniors in Civil Engineering.

9. *Masonry Construction* 2
Two hours per week, second term. Use of lime and hydraulic cement mortars; stone and brick masonry foundations; foundations in soft materials on land and under water; cofferdams, cribs and caissons. Text-book: Baker's Masonry Construction.
Required of Juniors in Civil and Mechanical Engineering Courses.
10. *Mining Engineering* 1
Lectures one hour per week first term. Mine surveying, blasting, timbering and winning deposits; ventilation, hygiene, and mining law.
Required of Juniors in Civil Engineering Course.
11. *Roofs and Bridges* 3
Two hours per week, first term; four hours second term. Theory of computation of stresses by both analytical and graphic methods; full computations, designs, and bills of material for a roof truss and railroad bridge. Text-books: Merriman and Jacoby's Roofs and Bridges, Parts I. and II.
Required of Seniors in Civil Engineering Course.
12. *Sanitary Engineering* 2
Two hours per week, first term. Calculation and special details of construction of sewers, separate and combined systems of sewerage; purification of sewage; municipal and domestic sanitation. Text-book: Baumeister's Cleaning and Sewerage of Cities.
Required of Seniors in Civil Engineering Course.
13. *Stereotomy and Drawing* 2
Two hours per week, first term. Right and oblique arches; cloisters and domes; isometric projections and drawings for templet patterns; stone cutting. Text-book: Warren's Stone Cutting.
Required of Seniors in the Civil Engineering Course.
14. *Arches and Dams* 1
One hour per week, first term. Theory of the equilibrium of arches and stability of masonry dams, by both analytical and graphic methods; drawings for complete designs. Text-book: Baker's Masonry Construction.
Required of Seniors in Civil Engineering Course.
15. *Waterworks* 3
Three hours per week, second term. Study of systems of water supply; collection, purification, and distribution of water; location of waterworks with

details of estimate of cost. Text-book: Fanning's Hydraulic and Water Supply Engineering.

Required of Seniors in the Civil Engineering Course.

16. *Engineering Laboratory* 2

Two hours per week, first and second terms. Test of strength and other properties of materials of construction; tensile and crushing tests of brick, stone and cement; flow of water through pipes, elbows, valves, and measurement by means of weirs.

Professor Kerr and Associate Professor Knoch.

Required of Seniors in Civil and Mechanical Engineering Courses, first and second terms; of Seniors in Electrical Engineering, second term.

17. *Field Practice* 2

Two hours per week, first and second terms. Topographical survey, triangulation, and leveling.

Required of Seniors in Civil Engineering Course.

18. *Drawing* 2

Two hours per week, second term. Structural details; working drawings for designs.

Required of Seniors in the Civil Engineering Course.

19. *Contracts and Specifications* 3

Three hours per week, second term. Study of such portions of the law of contracts as relate to engineering construction; engineering specifications and accompanying documents. Text-book: Johnson's Engineering Contracts and Specifications.

Required of Seniors in the Engineering Courses.

ELECTRICAL ENGINEERING (E. E.)

W. N. GLADSON, Associate Professor.

1. *Practical Management of Dynamos and Motors* 2

Recitation. Second term, two hours a week. A practical treatise on installing, starting, testing, locating, and remedying faults in dynamos and motors. A practical laboratory guide. Text-book: Crocker and Wheeler's Practical Management of Dynamos and Motors.

Required of second year students in short course in Electrical Engineering.

2. *Electrical Engineering* 3
 Telephone and telegraph; tests; methods of regulating and controlling dynamos and motors; station management; storage batteries; application of electricity to street car and mine work. Text-book: Slingo and Brooker's *Electrical Engineering*. Reference book: Thompson's *Dynamo Electric Machinery*.
 Required of second year students in short course in Electrical Engineering.
3. *Technical Drawing* 2
 Lectures and practice two afternoons a week throughout the year. Working drawings of electrical apparatus; wiring plans designed by student.
 Required of the Juniors in the full course, and second year students in short course in Electrical Engineering.
4. *Technical Drawing* 2
 Lectures and practice two hours a week throughout the year; extension of Course 3. Drawings of circuit and machine; electrical calculations and mechanical designs of electrical machinery; complete power plants designed by student.
 Required of Seniors in Electrical Engineering.
5. *Electrical Laboratory* 2
 Two afternoons a week throughout the year. An extended course in magnetic and electrical measurements; current, electro-motive force, and resistance; use and calibration of instruments, volt meters, and potentiometers; exploration of magnetic fields; dynamo work begun.
 Required of Juniors in full course and of second year students in short course in Electrical Engineering.
6. *Electrical Laboratory* 2
 Four hours a week throughout the year. This is an extension of course 5, and must be preceded by it. A full experimental course in operating and testing direct and alternate current machines; transmission, storage, and transformation of electric energy. Special courses given suited to the preparation and object of the student.
 Required of Seniors in the full course and of second year students in the short course in Electrical Engineering.
7. *Dynamo Electrical Machinery* 5
 Recitations first term five hours a week. Confined chiefly to direct current apparatus, including types of motors, generators, and transformers; design, cal-

culations, construction, testing, and operating. Text-book: Thompson's Dynamo Electric Machinery.

Required of Juniors in Electrical Engineering.

8. *Theory of Alternate Currents* 2

Recitations twice throughout the year. Text-book: Flemming's Alternate Current Transformer, Volume I.

Required of Juniors second term, and of Seniors first term, in Electrical Engineering.

9. *Alternate Current Machinery* 3

Recitations and lectures three times a week, second term. Text-book: Flemming's Alternate Current Transformer, Volume II.

Required of Seniors in Electrical Engineering.

10. *Electric Railways* 2

Recitations and lectures twice a week, third term. Text-book: Crosby and Bell's Electric Railway in Theory and Practice.

Required of Seniors in Electrical Engineering.

11. *Telephony and Telegraphy* 2

Lectures and recitations twice a week, one term. Text-books: Preece's Telephone, Thom and Jones's Telegraphic Connections.

Required of Seniors in Electrical Engineering.

12. *Electricity and Magnetism* 2

Recitations and practice twice a week, first term. Text-book: Gray's Absolute Measurements in Electricity and Magnetism.

Required of Seniors in Electrical Engineering.

13. *Electrical Design* 1

Lectures and practice once a week, first term.

Required of Seniors in Electrical Engineering.

14. *Photometry* 1

Lectures, recitations, and practice, once a week during the second term.

Required of Seniors in Electrical Engineering.

15. *Polyphase Electric Currents* 1

Recitations and experimental work. Text-book: Thompson's Polyphase Electric Currents.

Required of the Seniors in Electrical Engineering.

GRADUATE INSTRUCTION IN CIVIL ENGINEERING.

(1) *Framed Structures.*

This will include the computation of stresses, design, and complete working drawings for roofs, bridges, plate girders, trestles (in wood and iron), and a critical study of some of the modern tall buildings.

(2) *Railroad Engineering.*

Including railway management, buildings and yards.

(3) *Building Material.*

This course will be principally laboratory work on cements, building stones, wood, iron, and steel.

Directed by Associate Professor Knoch.

GRADUATE INSTRUCTION IN MECHANICAL ENGINEERING.

(1) *Engineering Design.*

This will lead to complete drawings and blue prints of steam engines, boilers, pumps, turbines, transmission machinery, or power plants, etc., based on original design and calculation. This will be accompanied by research in related literature.

(2) *Experimental Engineering.*

This will cover actual tests for efficiency of steam engines, boilers, turbines, pumping machinery, etc., combined with a study of important tests by experts.

(3) *Thermodynamics.*

Effect of heat on gases and vapors; study of general laws and their application to injectors, hot air, gas and steam engines; Hirn's Analysis; theory of compound engines; air compressors.

Directed by Professor Kerr.

GRADUATE INSTRUCTION IN ELECTRICAL ENGINEERING.

These courses will be in the nature of theoretical and practical investigations. The laboratory equipment, which is continually being added to, will furnish means for an extended investigation in the following lines:

- (1) Absolute measurements in electricity and magnetism.

- (2) Photometric standards and measurements.
- (3) Design, construction, and management of electric plants.
- (4) Management, tests, and efficiencies of direct or alternate current generators or motors.

A complete report of work done will constitute a part of the requirements.

Directed by Associate Professor Gladson.

THESIS.

This is to be an original work planned and executed by the student. The subject chosen must be covered by previous work and must be presented for approval to the instructor in charge of the course not later than the beginning of the second term, and the completed thesis must be presented at least two weeks before Commencement.

CHEMISTRY AND PHYSICS.

A. E. MENKE, Professor.

W. B. BENTLEY, Associate Professor.

CHEMISTRY.

1. *Agricultural Chemistry* 3

Recitations twice a week, laboratory work one afternoon throughout the year. This course will be devoted to instruction in the chemistry of soils, fertilizers, and agricultural products.

Professor Menke.

Required of Freshmen in Farmers' Course.

2. *General Inorganic Chemistry* 3

Lectures twice a week, laboratory work one afternoon throughout the year. Reference books: Roscoe and Schorlemmer's Treatise on Chemistry, and other books.

Associate Professor Bentley.

Required of Sophomores in Science, Courses II., III., IV., and V.
This course is omitted in 1896-'97.

3. *General Chemistry* 5

Lectures and recitations three times, laboratory work two afternoons per week throughout the year.
Text-book: Wurtz.

Professor Menke.

Required of Sophomores in the Engineering and Farmers' Courses, and of Freshmen in Science, Course I.

4. *Chemical Philosophy* 3

Three times per week, third term. This course supplements the instruction in theoretical chemistry given in Courses 2 and 3. Text book: Tilden's Introduction to Chemical Philosophy. Reference books: Ostwald's General Chemistry and Meyer's Theoretical Chemistry.

Associate Professor Bentley.

Required of Sophomores in Science, Course I.

5. *Qualitative Analysis.*

(a) Recitations three times per week, first term.
(b) Laboratory work two afternoons per week for engineering students, three afternoons for scientific students throughout the year. The recitations are occupied with the discussion of problems depending on the principles of qualitative analysis. The object of these discussions is to enable the student to understand the methods of separation as well as to be able to follow them practically. In the laboratory a large number of substances both simple and complex are analyzed. Laboratory Manual: Hill's Lecture Notes on Qualitative Analysis.

Associate Professor Bentley.

Required of Sophomores in Science, Course I.

6. *Mineralogy* 3

Laboratory work six hours per week, second term. A series of minerals are identified chiefly by blow-pipe tests. Foye's Handbook.

Associate Professor Bentley.

Course 6 is required of Sophomores in Science, Course I.

7. *Organic Chemistry* 3

Recitations three times per week throughout the year with laboratory work, if desired. Bernthsen's Organic Chemistry.

Associate Professor Bentley.

Required of Juniors in Science, Course I.

8. *Quantitative Analysis.* 4

Laboratory work four afternoons per week. Practice in gravimetric and volumetric analysis. Manual: Thorp.

Associate Professor Bentley.

Required of Juniors in Science, Course I.

9. *Quantitative Analysis* 4
 Second Course. Analysis of agricultural and food products.

Professor Menke.

Required of Seniors in Science, Course I.

10. *Technical Chemistry* 3

Three times per week throughout the year. A study of industries having chemical principles and processes for a basis. Manuals: Wagner, Sadtler.

Professor Menke.

Required of Seniors in Science, Course I.

11. *Physical Chemistry* 3

Chiefly laboratory work. Determination of molecular weights according to the various methods in common use. Thermo-chemical work, measurement of electric conductivity of electrolytes. Practice with polariscope, refractometer, etc.

Associate Professor Bentley.

Required of Seniors in Science, Course I.

12. *Metallurgy* 3

Three times a week throughout the year. Smelting and refining of ores and ore dressing products. Reduction to metals.

Professor Menke.

Required of Seniors in Science, Course I., and during the first term, of Seniors in Engineering Courses.

13. *Assaying* 4

Class meets at convenience of the instructor. Preparing and testing reagents, making cupels, etc., and assaying samples of furnace and mill products.

Professor Menke.

Required of Seniors in Science, Course I.

14. *Graduate Work.*

The professors will direct the work of such competent students as may desire to pursue a course of advanced study and research.

PHYSICS.

1. *General Physics* 5

Recitations four times and laboratory work one afternoon per week throughout the year. Recitations

and experimental lectures on mechanics, sound, heat, light, magnetism and electricity. Text books: Stewart's Heat; Sylvanus Thomson's Electricity and Magnetism; Hall & Bergen's Laboratory Handbook.

Professor Menke.

2. *Physical Measurements.*

Laboratory work for four hours for scientific, two hours per week for engineering students. Course 2 includes measurements in mechanics, sound, heat, light, magnetism and electricity. Manual: Sabine's Laboratory Course in Physics.

Associate Professor Bentley.

Required of Sophomores in Science, Course 1., and in Engineering Courses.

MATHEMATICS, ASTRONOMY, AND LOGIC.

HARRISON RANDOLPH, Professor.

G. W. DROKE, Associate Professor.

The following courses of instruction are offered by the Mathematical Department:

I. ELEMENTARY MATHEMATICS.

1. *Algebra*2

Beginning with simultaneous quadratic equations, through theory of logarithms, binomial theorem, indeterminate coefficients and theory of numbers. Text-book: Wentworth.

*Professor Randolph,
Associate Professor Droke.*

Required of Freshmen in Arts and Engineering, in Science, Course 1., and in Normal Course.

2. *Plane and Solid Geometry, Elementary Trigonometry*3

Text-books: Wentworth's Geometry, Bowser's Trigonometry.

*Professor Randolph,
Associate Professor Droke.*

Required of all Freshmen.

II. ELEMENTARY MATHEMATICS.

3. *Plane and Spherical Trigonometry, Elementary Theory of Equations* 5

First term. Text-books: Bowser's Trigonometry, Wentworth's Algebra.

Professor Randolph.

Required of Sophomores in Arts, Course III, and of Sophomore Engineering Students.

4. *Analytic Geometry of Two Dimensions* 5

Second term. Text-book: Puckle's Conic Sections.

Professor Randolph.

Required of Sophomores in Arts, Course III, and of Sophomore Engineering Students.

5. *Course in Differential and Integral Calculus for Engineering Students.*

This course, designed for engineering students, will be completed at the end of the first term. Recitations five times a week. Text-book: Osborn's Differential and Integral Calculus.

*Professor Randolph,
or Associate Professor Droke.*

III. INTRODUCTORY TO HIGHER MATHEMATICS.

6. *Differential and Integral Calculus* 3

An elaborate study of the differential and integral calculus, with applications to problems of geometry and mechanics, based on Todhunter's Treatises on Differential and Integral Calculus.

*Professor Randolph,
or Associate Professor Droke.*

Required of Juniors in Arts. Course III.

IV. SENIOR COURSES.

7. *Theory of Determinants—Analytic Geometry of Three Dimensions* 3

First term. Smith's Solid Geometry.

Professor Randolph.

Required of Seniors in Arts, Course III.

8. *Theory of Equations. Differential Equations..4*

Second term. Todhunter's Theory of Equations, Johnson's Ordinary and Partial Differential Equations.

Professor Randolph.

Required of Seniors in Arts, Course III.

V. ADVANCED COURSES.

9. *Theory of Surfaces.*

This course is a continuation of Course 7. General theory of twisted curves and surfaces, including curvature, lines of curvature and allied subjects in differential geometry.

Professor Randolph.

10. *Modern Synthetic Geometry.*

For reference: Richardson & Ramsey.

Associate Professor Droke.

11. *Differential Equations.*

This course is a continuation of Course 8. For reference: Forsyth's Differential Equations.

Professor Randolph.

12. *Trilinear Coordinates.*

Their application in pure and analytic geometry.

Associate Professor Droke.

13. *Higher Plane Curves.*

General properties of algebraic curves and their singularities. For reference: Salmon's Higher Plane Curves and Clebsch Vol. I.

Professor Randolph.

14. *Analytical Mechanics.*

Statics, dynamics, and elements of the theory of the potential. Routh's Analytical Statics, Vols. I and II. Williamson's Dynamics. Prerequisite: Analytical Geometry and a thorough knowledge of Differential and Integral Calculus; *i. e.* Courses 4, 5 or 6, and 7.

Professor Randolph.

ASTRONOMY.

1. *Descriptive Astronomy.*

From March 15 to end of session. Text-book: Young.
Associate Professor Droke.

LOGIC.

1. *Deductive and Inductive Logic.*

From beginning of session to March 15. Text-books:
Davis's Elements of Deductive Logic, and Elements
of Inductive Logic.
Professor Randolph.

BIOLOGY AND GEOLOGY.

PROFESSOR MCNEILL.

ASSOCIATE PROFESSOR MEEK.

BIOLOGY.

1. *General Biology* 3

Recitations twice, and laboratory two hours per week. A brief study of typical plants and animals with reference to structure, development and relationship. This course is introductory to both Botany and Zoology. Text-books: Parker's Biology; laboratory manual, Boyer's Practical Biology.

Professor McNeill.

Required of Freshmen in Science, Courses II, III, IV, and V, and of Sophomores in Science, Course I.; alternative with Botany 1 or Zoology 1 for Freshmen in Arts Courses and in Normal Course.

BOTANY.

1. *Systematic Botany* 3

One lecture a week for the first term, with four hours laboratory work. Six hours a week laboratory work for the second term. Designed to give students a general knowledge of the classification of plants and a more particular acquaintance with the seed plants

and ferns of Northwest Arkansas. Text-book: Gray's Manual of Botany.

Professor McNeill.

Required of Sophomores in Science, Courses II, III, IV, V; alternative with Biology 1 or Zoology 1 for Freshmen in Arts Courses and in Normal Course.

2. *General Morphology of Plants*3

Recitations twice, laboratory work two hours per week, first and second terms. This course must be preceded by Course 1. It should precede Course 4, but does not do so necessarily. Text-book: Goebel's Outlines of Classification.

Professor McNeill.

2 is offered only in odd years, and is required of Juniors in Science, Course II. alternative with 4 for Juniors in Science, Courses II and III.

3. *Bacteriology*3

Six hours a week laboratory work for the first term. Text-book: Hueppe's Methods of Bacteriological Investigations.

Professor McNeill.

Required of Juniors or Seniors in Science, Course II, and alternative with 2 for Juniors in Science, Courses III or IV.

4. *Physiological Botany*3

Laboratory work six hours a week during the school term.

Professor McNeill.

3 is offered only in even years, 4 in odd years, and they are alternative with 2. Required of Juniors and Seniors in Science, Course II; alternative with 2 and 3 for Juniors in Science, Courses III and IV.

5. *Advanced Work in Histology or Systematic Botany*3

Professor McNeill.

Required of Seniors in Science, Course II.

ENTOMOLOGY.

1. *General Entomology*3

Recitations twice, laboratory work two hours per week. Designed to give a general knowledge of the structure, habits, and classification of insects and a more particular knowledge of the orders Orthoptera and Lepidoptera. Text-book: Comstock's. Labora-

tory Guide: French's Butterflies of the Eastern United States, and other manuals.

Professor McNeill.

Required of Juniors in Science, Course II.

2. *General Entomology*5

This course is the same as 1, with four hours per week additional laboratory work.

Professor McNeill.

Required of Juniors in Science, Course III.

3. *Economic Entomology*3

This course is a continuation of 2, and must follow it. The systematic work for each student will be restricted to one order or family of which he will be expected to make a special study. Special attention will be given to breeding and rearing of insects and to working out the life histories of those species that are little known.

Professor McNeill.

Required of Seniors in Science, Course III.

ZOOLOGY.

1. *General Zoology*3

One recitation and four hours laboratory work per week. A general course in animal morphology and systematic zoology. The systematic work will be restricted to vertebrates. Text-book: Packard's Zoology. Laboratory Guide: Jordan's Manual of Vertebrates.

Associate Professor Meek.

Required of Sophomores in Science, Courses II, III, IV and V; alternative with Biology 1 and Botany 1 in Arts and Normal Courses.

2. *Vertebrate Anatomy*3

Recitations twice per week and dissection of typical vertebrates. Text-book: Weidersheim's Anatomy of Vertebrates.

Professor McNeill.

Required of Juniors in Science, Course IV. Offered only in even years.

3. *Neurology.*

Lectures twice a week, second term.

Associate Professor Meek.

Required of Juniors whose course requires Psychology.

4. *Animal Histology*6

Two recitations and eight hours in the laboratory per week, first term. Open only to students who have taken course 2. Text-book: Schafer's Essentials of Histology.

Professor McNeill.

Required of Seniors in Science, Course IV. Offered only in even years.

5. *Embryology*6

Recitations three times, and laboratory work six hours a week, second term. Open only to students who have taken course 4. Text-book: Foster and Balfour's Elements of Embryology.

Professor McNeill.

Required of Seniors in Science, Course IV. Offered only in odd years.

6. *Ichthyology.*

Lectures once, and laboratory work four hours a week. Advanced work in the study of fishes.

Associate Professor Meek.

Elective.

GEOLOGY.

1. *General Geology*3

Recitations and lectures three times a week. Structural, dynamical, and historical Geology, with occasional field excursions. Text-book: Le Conte's Elements or Dana's Manual.

Associate Professor Meek.

Required of Juniors in Science Courses; alternative with Course 3 for Juniors in Science, Course I.

2. *Practical Geology*2

Field work and laboratory practice throughout the year. Field work consists in making geological sections and geological maps, using United States Geological Survey methods. Laboratory practice consists of a study of building and ornamental rocks. Text-book: Merrill's Building and Ornamental Rocks of the United States. This course will accompany or follow courses 1 or 3.

Associate Professor Meek.

Required of Juniors in Science, Course V.

3. *Economic Geology*3

Recitations and lectures, three times a week: Ore deposits and valuable rock materials. Field work

and laboratory practice two hours per week. This course is designed for engineering students. Text-book: Tarr.

Associate Professor Meek.

Required of Juniors in Civil Engineering and of Seniors in Science, Course V; alternative with Course 1 for Juniors in Science, Course 1,

4. *Petrography* 3

Lectures and recitations once a week, laboratory practice four hours a week, first and second terms. Text-book: Iddings.

Associate Professor Meek.

Required of Seniors in Science, Course V, alternative with 5.

5. *Paleontology* 3

Recitations and lectures once a week, laboratory four hours per week. Fossils studied will be selected each year.

Associate Professor Meek.

Required of Seniors in Science, Course V; alternative with 4.

PSYCHOLOGY AND ETHICS.

PRESIDENT BUCHANAN.

The course offered in these subjects consists of recitations, lectures, and full and free discussions by the members of the class. In connection with a careful examination of the views and opinions of leading thinkers, students are encouraged to study their own mental phenomena and to subject to the test of individual consciousness the various theories which come under investigation. Due attention is given to the recognized contributions of modern Physiology to Psychology. As introductory to this part of the subject, the Professor of Biology gives a course of lectures with accompanying laboratory work in Neurology, which all students whose course includes Psychology, are required to attend during a part of the second term of the Junior year.

1. *Psychology* 3
Three times a week, first and second terms.
Required of Seniors in Arts, Courses I., III., and IV., and of Seniors in Science, Courses II., III., IV. and V.
2. *Ethics* 2
Twice a week, third term.
Required of Seniors who take Psychology.
3. *Political Economy* 2
Lectures and recitations twice a week. Attention is specially directed to the leading questions of the day, such as public finance, tariff, railway, and other corporate industries, etc.
Required of Juniors in Arts.

ENGLISH AND MODERN LANGUAGES.

R. H. WILLIS, Professor.

IDA PACE, Associate Professor.

EDNA ALLEN,	} Acting Assistants.
LILA DAVIES,	
CLARA EARLE,	
MOLLIE REMY,	

For the lower classes in each language the aim is to acquire a practical and accurate use of the language as it exists to-day; and the only proper basis for this is an exact knowledge of grammatical forms and of the elementary principles of syntax. In the higher classes the languages are studied historically and philologically with a view to general culture and to the best mental discipline.

Every student has the opportunity to become thoroughly acquainted with the English language, to learn to speak and write it correctly and forcibly. A course of parallel reading is prescribed for each class, and an extensive course of general reading is published in the Library for the benefit of all. It is carefully selected and graded, and affords much variety in style and matter.

In the foreign languages the first and constant aim is correct pronunciation and excellence in translation and composition; but the syntactical and etymological relations existing between these languages and the English are emphasized, and they are thus constantly contributing to the student's knowledge of English and to his power of expression. Besides the above instruction there are, in each foreign language, additional recitations devoted wholly to conversation and sight reading.

The following are the courses for 1896-'97:

ENGLISH.

1. *English Language and Literature*.....3

Meiklejohn's English Language (complete); nine essays (chiefly narrative and descriptive) criticised and corrected by the instructor and copied by the student; thorough drill in English metres. For reference: Bain, Blair, Clark, Hart, Hill, Genung, Kames.

Professor—————

Required of all Freshmen.

2. *American Literature; Prose Style*.....2

Study of American literature and of representative American and English authors with rhetorical analysis and criticism: Irving, Ruskin, Carlyle, Burke, Goldsmith, Swift, Addison, Bacon; three essays. Text-books: Watkins's American Literature; Garnett's English Prose. For topical study: Genung's Rhetoric. For reference: Arnold, Hunt, Manly, Minto, Morley, Pancoast, Shaw, Taine, Welch, and others.

Miss Pace.

[In 1897-'98 the authors will be: Hawthorne, Thackeray, Macaulay, DeQuincey, Scott, Johnson, Steele, Milton.]

Required of Sophomores in Arts and Engineering, and of Sophomores in Science, Courses II., III., IV., and V. This course may be taken for two consecutive years.

3. *English and American Poets*.....2

General survey of period from Restoration to Tennyson, with critical study of representative poets:

Dryden, Pope, Gray, Burns, Coleridge, Scott, Byron, Poe, Bryant, Longfellow, Tennyson; three essays. Hale's Longer English Poems and other critical editions. For reference and topical study: Brooke, Gosse, Hallam, Lowell, Oliphant, Pancoast, Saintsbury, Shaw, Taine, Ward, and others.

Miss Pace.

[In 1897-'98 different selections or different poets of this period will be studied.]

Required of Juniors in Arts, Course II. This course may be taken for two consecutive years.

4. *Middle English and Early Modern English* . . . 2

Literary history of period from Chaucer to Milton; reading of representative authors with historical, philological, and literary criticism; three essays. Morris's or Sweet's Chaucer, Kitchin's Spencer, Book II., Verity's Milton, Sprague's plays of Shakespeare and the Arden edition. For reference: Bucknell, Coleridge, Dowden, Gervinus, Hazlitt, Hudson, Ulrici, and others.

[in 1897-'98 there will be different readings from the same authors.]

Professor Willis.

Required of Juniors in Arts. This course may be taken for two consecutive years.

5. *Anglo-Saxon and Middle English* 3

Readings from the Anglo-Saxon Gospels and Chronicles; selections from Alfred, Aelfric, Caedmon, and later writers. Bright's Anglo-Saxon Grammar and Reader (120 pages); Morris's Specimens of Early English, Part I.; Ten' Brink's Old English Literature (selections). For reference: Cook's First Book in Old English, Cook's Sievers's Grammar of Old English, March's Anglo-Saxon Grammar (syntax), Skeat's Etymological Dictionary.

Professor Willis.

Required of Seniors in Arts, Course II. The readings will be mostly changed for 1897-'98.

6. *English Philology* 1

Champeys's English Language with parallel readings and lectures. For reference and topical study: Skeat's Principles of English Etymology, Sweet's Grammar (historical part), Earle, Emerson, Henry, Morris, Peile, and others.

Professor Willis.

Required of Seniors in Arts.

7. *Advanced Anglo-Saxon and English Philology* . 2

Ten Brink's Old English Literature (selections); Cook's Sievers's Grammar, and one of the following

courses of reading with critical and philological study: (a) Alfred's Orosius (Sweet); Judith (Cook); Elene (Kent); or (b) Exodus and Daniel (Hunt); Beowulf (Harrison and Sharpe). For reference: Henry's Comparative Grammar, Bosworth's Anglo-Saxon Dictionary, Skeat's Etymological Dictionary, Mayhew's Synopsis of Old English Phonology, Sweet's Primer of Phonetics, Kluge's Etymological Dictionary, Balg's Glossary of Gothic.

Miss Pace.

For graduate students who have completed 4, 5 and 6.

8. *Gothic and Germanic Philology*.....3

For students who wish to study English or German historically. Special attention is given to the phonological relations of Gothic to earlier Indo-European languages and to later Germanic languages. Balg's Translation of Braune's Gotische Grammatik; Ulfilas (Heyne or Balg); Douse's Introduction to the Study of Gothic. For reference: Wright's Primer of Gothic, Balg's Glossary, Kluge's Etymological Dictionary, Mayhew's Synopsis, Sweet's History of English Sounds, Paul and Braune's Grundriss, Brugmann's Comparative Grammar.

Professor Willis.

For graduate students who have completed 4, 5 and 6.

9. *Graduate Courses in Literature*.....3

(1) Critical study of the life and works of Scott, Byron, Macaulay, Thackeray, Carlyle, and Tennyson; (2) of Irving, Poe, Hawthorne, Emerson, Longfellow, and Sidney Lanier; (3) of Shakespeare (complete works); (4) of Chaucer (complete works).

Miss Pace.

For graduates who have completed 2, 3 and 4.

NOTE—At present not more than one of the above graduate courses will be given in any one year to resident students.

GERMAN.

I. *Modern German, Elementary*.....3

Thomas's Grammar with composition; Brandt's Reader (150 pages) containing selections from the simple prose of Grimm, Niebuhr, and late authors, and from the lyrics of Goethe, Schiller, Heine, Uhland, and other poets; three lyric gems memorized.

Professor Willis.

Required of Juniors in Arts, Course II., and of Juniors in Science. A separate course of sight reading and conversation may be given once a week.

2. *Schiller and German History* 3

Schiller's *Jungfrau von Orleans*; Beresford-Webb's *Historical Readings*; Bernhardt's *Deutsche Litteraturgeschichte*; grammar and composition continued; original composition.

Miss Pace.

Required of Seniors in Arts, Course II.

3. *Goethe and Lessing* 2

Goethe's *Iphigenie* and prose selections; Lessing's *Nathan der Weise*. For reference in 2 and 3: Scherer's *German Literature*; Whitney's and Brandt's *Grammars*; Behaghel's *Historical Grammar*; Jagemann's *Syntax*. Dictionaries: Thieme-Preusser, Heath, or Adler (Quarto).

Professor Willis

Required of Seniors in Arts, Course II.

4. *German at Sight and Conversation* 2

Volkmann's *Kleine Geschichten*; Benedix's *Die Hochzeitsreise*; Riehl's *Der Fluch der Schoenheit*; Chamisso's *Peter Schlemihl*; Worman's *First and Second Books*.

Professor Willis

Required in connection with 2, 3, and 5.

5. *Scientific German* 1

Dippold's *Scientific German Reader* and other selections from German Scientists.

Professor Randolph.

Required of Seniors in Science, and of Seniors in Arts, Course III.

6. *Graduate Courses in German* 3

One of the following courses of one year each may be taken at the professor's convenience: (1) *Life and Works of Goethe*, (2) of *Schiller*, (3) of *Lessing*, (4) *Old and Middle High German*, (5) *Gothic and Germanic Philology*.

For graduates who have completed 2, 3, and 4.

NOTE—2, 3, and 4 have different Readings in 1897-'98, and each may be taken for two consecutive years.

FRENCH.

1. *Modern French, Elementary* 3

Edgren's *Grammar with composition*; Whitney's *Reader*, containing simple prose tales and extended selections from Daudet, Dumas, Souvestre, Michelet,

Lamartine, and other nineteenth century authors, and a few lyrics from Victor Hugo, Béranger, Gautier, and other poets.

Miss Pace.

Required of Freshmen in Arts, Courses II. and III., of Freshmen in Science, Courses II., III., IV., V., and of Sophomores in Science, Course I. A separate course of sight reading and conversation may be given once a week.

2. *Nineteenth Century Writers, Advanced* 2

Luquiens's French Prose (Dumas, Taine, and others); Victor Hugo's *Hernani*; Duval's *Littérature Française*; grammar and composition continued. For reference in 2 and 3: Whitney's *Grammar*; Harrison's *French Syntax*; Brachet's *Historical Grammar*; Saintsbury's *History of French Literature* and other larger works. Dictionaries: Spier's and Surenne's *Quarto*, Heath's, *The Classic*.

Miss Pace.

Required of Sophomores in Arts, Course II.

3. *The French Classic Drama* 3

Critical study of representative authors: Corneille's *Polyeucte*; Racine's *Athalie*; Molière's *L'Avare* and *Le Tartuffe*; grammar and composition continued; original composition; Duval's *Littérature*.

Miss Pace.

Required of Juniors in Arts, Course II.

4. *French at Sight and Conversation* 2

Fontaine's *Lecture et Conversation*; *Histoire de France*; Balzac's *Le Curé de Tours*.

Miss Pace.

Required in connection with 2, 3, and 5.

5. *Scientific French* 1

Herdler's *Scientific French Reader* and other selections from French scientists.

Professor ————

Required of Sophomores in Arts, Course III., of Sophomores in Science, Courses II., III., IV., and V., and of Juniors in Science, Course I.

6. *Graduate Courses in French* 3

One of the following courses of one year each may be taken at the professor's convenience: (1) *Life and Works of Molière*, (2) of *Corneille and Racine*, (3) of *Voltaire*, (4) of *Victor Hugo*, (5) *Old French*.

For graduates who have completed 2, 3, and 4.

NOTE.—2, 3, and 4, have different readings in 1897-'98, and each may be taken for two consecutive years.

SPANISH.

1. *Modern Spanish, Elementary*3

Edgren's Spanish Grammar with composition; Worinan's First Spanish Book; Knapp's Spanish Readings, containing extracts from Fernan Caballero, Segas, Lafuente, Valera, and other authors.

Professor —————

Allowed as a substitute for French 2 and 4, or for French 3. Ordinarily this class will not be formed for less than five students. A separate course of sight reading and conversation may be given once a week.

2. *The Spanish Classic Writers*3

Selections from Don Quixote; Lope's La Discreta Enamorada; Calderon's La Vida es Sueño, and El Alcaide de Zalamea; Conant's Spanish Literature; grammar and original composition. For reference: Knapp's Grammar; Sismondi's Literature; Clarke's Spanish Literature; Velasquez's Quarto Dictionary.

Professor Willis.

Allowed as a substitute for French 3.

3. *Spanish at Sight and Conversation*2

Valera's El Pajaro Verde; Larra's Partir á Tiempo; Moreto's El Desden con El Desden; Herrero's La Independencia; Worman's Second Book.

Professor Willis.

Allowed as a substitute for French 4.

ITALIAN.

1. *Elementary Course*3

Grandgent's Grammar with composition; Italian Principia II. (readings from standard authors selected for beginners); Sonzogno's Letteratura Italiana.

Elective at the professor's convenience, but will not be taught for less than five students.

2. *Advanced Course*3

Nota's La Fiera; Ongaro's Rosa dell' Alpi; Tasso's Gerusalemme Liberata; grammar and composition continued. For reference: Cuore's Grammar; Sismondi's Literature. Dictionary: Milhouse, or Barette.

Elective at the professor's convenience.

ANCIENT LANGUAGES.

J. C. FUTRALL, Professor.

E. F. SHANNON, Associate Professor.

In this department the following courses are offered.

LATIN.

1. *Nepos, Cicero and Virgil*.....3

An accurate knowledge of the Latin forms is insisted upon; exercises in prose composition taken from Collar's Practical Latin Composition; Roman History.

Associate Professor Shannon.

Required of Freshmen in Arts.

2. *Livy, Cicero and Horace*.....3

Systematic study of the grammar; exercises in prose composition, prepared by the Professor and based upon the authors read in class; the metres of Horace; sight reading; Roman Literature.

Professor Futrall.

Required of Sophomores in Arts.

3. *Tacitus and Roman Life in Latin Prose and Verse, by Peck and Arrowsmith*.....2

Designed to give to those students who do not propose to take courses 4 and 5, a better reading knowledge of the language than can be attained by the completion of course 2; sight reading.

Associate Professor Shannon.

Elective for students who have completed Course 2.

4. *Junior Course*.....3

The object of this course is to give the student greater facility in turning English into Latin and Latin into English. The study of the Grammar is continued, and exercises for translation into Latin, based on the text, are prepared by the Professor. Parallel reading is assigned from which the translations for examination are taken. Roman Literature. The authors read in '96-'97 will be Livy, Horace, Seneca and Pliny.

Professor Futrall.

Required of Juniors in Arts, Course I.

5. *Senior Course*.....3

This course is a continuation of Course 3. The authors read in '96-'97 will be Cicero, Juvenal, Catullus and Plautus. Translation at sight of idiomatic English into idiomatic Latin. The translations for examination are taken partly from the parallel reading assigned, and partly from Latin that the class has not seen.

Professor Futrall.

Elective for students who have completed 4.

6. *Graduate Course.*

Students who have completed Course 5 may take, at the Professor's convenience, a graduate course, which for '96-'97, will consist of the Life and Works of Horace.

GREEK.

1. *Elementary Course*.....3

White's Beginner's Greek Book, with selections for reading. A thorough mastery of the forms and constructions given in this book is required.

Associate Professor Shannon.

Required of Freshmen in Arts, Course I.

2. *Xenophon and Lysias*.....3

This course is intended to familiarize the student with all the ordinary Attic forms and constructions; frequent exercises in oral and written translation of English into Greek, based upon the text read, are given, and some practice in sight reading.

Associate Professor Shannon.

Required of Sophomores in Arts, Course I.

3. *Homer, Herodotus and Thucydides*.....3

Systematic study of the grammar; exercises for translation into Greek, prepared by the Professor; sight reading.

Professor Futrall.

Required of Juniors in Arts, Course I.

4. *Plato, Sophocles and Aristophanes*.....2

One dialogue of Plato; one play each of Sophocles and Aristophanes; Goodwin's Greek Moods and Tenses.

Professor Futrall.

Elective for students who have completed 3.

5. *Graduate Course.*

In '96-'97 graduate students may take under the direction of the Professor a course in either the Attic Orators or the Drama.

Text-books in Latin: Gildersleeve's Grammar (Lodge); White's English-Latin Lexicon; Harper's Latin Lexicon; Liddell's History of Rome; Bender's Roman Literature; Crutwell's Roman Literature; any approved edition of the Latin authors may be used except when certain editions are prescribed.

Text-books in Greek: Goodwin's Revised Greek Grammar; Goodwin's Greek Moods and Tenses; Liddell and Scott's Greek Lexicon; Collar and Daniell's Prose Composition, based on Xenophon's Anabasis; any approved edition of the Greek authors may be used except when certain editions are prescribed.

HISTORY AND PEDAGOGICS.

J. F. HOWELL, Professor.

HISTORY.

1. *Constitutional History* 2
Text-book: Fiske's Civil Government; lectures and reading.
Required of Freshmen in Arts, Course IV, and in the Normal Course.
2. *General History* 3
Text-book: Myers's General History; collateral reading.
Required of Sophomores in Arts, Science, and the Normal Course.
3. *English History* 1
Text-book: Montgomery's English History.
Required of Sophomores in Arts.
4. *Ancient History* 2
In the light of recent discoveries and investigations; Egypt and Israel; Greece and Rome. Lectures and recitations on assigned topics.
Required of Juniors in Arts, Course IV.
5. *Ecclesiastical History* 2
Outlines of church history from the rise of Christianity to the present time. Lectures and recitations on assigned reading.
Elective for Seniors and Juniors who have passed in Course 2.

6. *European History*2

From the fall of Rome to the present time. Lectures, recitations on assigned reading, and topical research.

Required of Seniors in Arts, Course IV.

7. *American History*2

From the earliest explorations to the present time. Lectures, recitations on assigned periods, and topical research.

Required of Seniors in Arts, Course IV.

8. *French History*2

Twice a week, first term.

Required of Seniors in Arts, Course II.

9. *German History*2

Twice a week, second term.

Required of Seniors in Arts, Course II.

NOTE—Graduate courses in History will be given at the Professor's convenience.

PEDAGOGICS.

1. *Pedagogy*2

Text-book: White's Elements of Pedagogy, with lectures and collateral reading; methods.

Required of Freshmen in the Normal Course.

2. *School Management*3

Three times a week first term. Text-book: Baldwin's School Management, and collateral reading.

Required of Sophomores in the Normal Course.

3. *History of Education*2

Twice a week, second term. Text-book: Painter's History of Education, with collateral reading.

Required of Sophomores in the Normal Course.

4. *School Law*1

Once a week, second term. Decisions of State Supreme Courts on questions relating to the rights and duties of school officers, parents and children. The School Laws of Arkansas. Text-books: Burke, The Law of Public Schools, and the text of the Arkansas school laws.

Required of Sophomores in the Normal Course.

5. *Science of Education*.....2
Twice a week, first term. Text-book: Palmer's Science of Education.
Elective for Juniors and Seniors.
6. *Philosophy of Education*.....2
Twice a week, second term. Text-book: Rosenkranz's Philosophy of Education.
Elective for Juniors and Seniors.

MILITARY SCIENCE AND TACTICS.

1ST LIEUT. ELIAS CHANDLER,
16th U. S. Infantry, Professor.

1. *Practical Work*.....3
Three hours per week. In school of the soldier, squad, platoon, company and battalion, close and extended order; ceremonies of guard mounting, dress parade, inspection and review; camping, guard duty, target practice, laying out field works, and signaling. In this work, the cadet officers act as instructors, thus putting into practice the knowledge gained in previous years.
Required of all male students over 15 years of age.
2. *Recitations and Lectures*.....1
One hour per week. Infantry Drill Regulations (U. S. Army, Part I.). Manual of Guard Duty (U. S. Army).
Required of all Male Freshmen.
3. *Recitations and Lectures*.....1
One hour per week. Infantry Drill Regulations (U. S. Army Part II.). Small Arms Firing Regulations (Blunt).
Required of all Male Sophomores.
4. *Recitations and Lectures*.....1
One hour per week. Military Field Engineering (Beach). Military Signalling (United States Army Signal Code).
Required of all Male Juniors.
5. *Recitations and Lectures*.....1
One hour per week. Service of Security and Information (Wagner). Military Law (Winthrop).
Required of all Male Seniors.

ELOCUTION.'

JESSIE L. CRAVENS, Instructor.

The course of instruction comprises a thorough training in the essentials of expression.

1. *Physical Training.*

The course includes thorough drill in:

1. Light Gymnastics,
To promote health; to give vigor and tone.
2. Aesthetic Gymnastics,
(In accordance with the laws of Delsarte)
For the attainment of grace, precision, and
harmony in action.

2. *Voice Culture.*

1. Respiration.
To breathe naturally. Economy of breath.
Drill in deep, effusive, expulsive, and explosive
forms, as a basis for voice work.
2. Voice.
Exercises for the production and cultivation of
open, pleasing, and musical tones. To avoid
shrill and loud tones.
3. Articulation.
To acquire a correct use of the articulatory
organs. Exercises upon elementary sounds,
separately and in combination. Syllabica-
tion, accent, and pronunciation. Defects of
speech.

3. *Expression — Reading, Recitation and Oratory.*

Modulation, inflection, emphasis, pitch, quan-
tity and movement. Qualities. Application
of tone effects. Light and shade in tone.
Transitions. Pause effects. Facial Expres-
sion. Action and repose. Naturalness.
Clearness.

TEXT-BOOKS.

The books in use and for reference are South-
wick's Elocution and Action, Stebbins's System of
Expression, Fulton and Trueblood's Practical Elocu-
tion, Hudson's Shakespeare, Werner's Readings and
Recitations, etc.

This department is open to all students in the Collegiate Classes and to the second year students of the Preparatory Department. Twice a week for each class.

MUSIC.

I. PIANOFORTE, HARMONY, AND MUSICAL HISTORY.

ANNA H. EDMISTON.

FIRST YEAR.

Theoretical Rudiments. Graded Materials for Study, W. S. B. Matthews; Kohler's Etudes, Op. 50. MacDougall's Melody Playing; thirty selected studies from Heller. Mason's Technics.

SECOND YEAR.

Matthew's Phrasing and Interpretation.

Loeschhorn's Etudes, Op. 66 and 67.

Bach's Lighter Pieces.

Le Couppey's, Op. 26.

Krause's Trill Studies, Op. 2.

Dorings, Op. 24.

Mason's Technics.

Selections from Mozart, Schumann, Mendelssohn, and the best modern composers.

THIRD YEAR.

Harmony and History of Music.

Heller's Art of Phrasing.

Cramer's Select Studies—VonBulow Edition.

Bach's Inventions.

Selected Octave Studies.

Haberbier's Etude Poesies, Op. 53.

Clementi's Gradus ad Parnassum.

Mason's Technics.

Selections from Haydn, Beethoven, Schubert, Schumann, Chopin, and the best European and American composers.

FOURTH YEAR.

Analytical Study of the principal works of the Great Masters.

Chopin's, Op. 10 and 25.

Bach's Preludes and Fugues.

Cramer's Selected Studies.

Moscheles, Op. 70.

Kullak's Octave Studies.

Kessler's, Op. 20.

Schumann's Etudes.

Mason's School of Octaves and Bravura.

The aim of this course is the development of a high degree of technique, interpretation and general musical intelligence—to make musicians as well as performers.

Classes in Normal Training will be formed for those who wish to become teachers of music.

II. VOICE CULTURE AND VOCAL MUSIC.

MRS. A. D. DAVIS.

True cultivation of the voice consists in the development of pure tone, and its easy, natural use and control in singing.

Attention is given to respiration as an art applicable to singing ; position of mouth and tongue, and control of the face in singing ; emission of voice on vowels ; exercises for uniting the registers ; practice on sustained tones in the entire range of the voice ; exercises in agility and velocity ; exercises in articulation of consonants and vowels ; study of delivery and expression ; the formation of good style, etc.

Garcia's Vocal Exercises, Concone, Bordogni, Marchesi, Panseron, and other technical works ; songs of the English, Italian, French and German Schools ; church music ; study of opera and oratorio.

TERMS.

18 weeks, two lessons per week, Pianoforte	
and Voice Culture, each	\$22.50
Harmony in class	5.00
Use of pianoforte for practice	2.50
Tuition payable in advance.	

No deduction will be made except in case of prolonged illness.

Instruction in Guitar and Mandolin playing given.

ART DEPARTMENT.

MISS AMARINTHIA LEVERETT.

The following branches will be taught in this department.

- | | | | |
|--------------|---|--------------------|--|
| 1. DRAWING, | { | 1. Free Hand. | |
| | | 2. Crayon, | { Portraits,
Still Life,
The Flat. |
| | | 3. Charcoal, | { Still Life,
Casts,
Nature. |
| | | 4. Pen and Ink. | |
| | | | |
| 2. PAINTING, | { | 1. Oil, | { Nature,
Still Life,
The Flat. |
| | | 2. Water Color, | { Still Life,
Portrait,
The Flat. |
| | | 3. Pastel, | { Sketching,
Portrait,
Landscape—The Flat. |
| | | 4. China Painting. | |

All students with no previous training are required to take a short course in free hand drawing before beginning work in any other branches.

TERMS.

Tuition, \$4 per month, payable in advance.

The School of Agriculture.

FACULTY.*

J. L. BUCHANAN, President.
A. E. MENKE, Chemistry and Agriculture.
W. B. BENTLEY, Chemistry.
H. RANDOLPH and G. W. DROKE, Mathematics.
J. F. MCNEILL and S. E. MEEK, Biology.
R. H. WILLIS and IDA PACE, English.
E. CHANDLER, Military Science and Tactics.
R. R. DINWIDDIE, Veterinary Science.
W. F. BATES, Farm Work and Dairying.

REQUIREMENTS FOR ADMISSION.

(See pages 32-36.)

*All students in this school must consult Professor Menke immediately after registration.

COURSE IN AGRICULTURE.

The School of Agriculture is designed and organized to give both theoretical and practical instruction in the various branches of agriculture. Special preparation is needed no less for the pursuit of agriculture than for law, medicine, or divinity. The method of instruction now employed is classroom work, accompanied by practical demonstrations in the field, dairy, and laboratories. The equipment for practical work will compare favorably with that of other agricultural colleges; the machinery is new and of the most improved pattern, all selected with a view to its economic value. The dairy has been recently fitted up with Laval's separator and other necessary implements. We have a large vineyard and an orchard for practical horti-

cultural work; a herd of grade Jerseys, so that the students can be instructed in the work that occurs on either a stock, dairy, fruit, or cropped farm.

FARMERS' COURSE FOR CERTIFICATE IN AGRICULTURE.

FRESHMAN YEAR.

	Hours per week
Biology 1, (<i>General Biology</i>).....	3
Chemistry 1, (<i>Agricultural Chemistry</i>).....	3
English 1, (<i>English Language and Literature</i>).....	3
Mathematics 1, 2, (<i>Algebra, Geometry, Trigonometry</i>)	5
Botany 1, (<i>Systematic Botany</i>).....	3

SOPHOMORE YEAR.

Veterinary Anatomy.....	3
Agriculture	2
Horticulture (first term).....	4
Dairy Husbandry (second term).....	4
Stock Breeding.....	3
Chemistry 3, (<i>General Chemistry</i>).....	5

Students who have completed this course may take the Junior and Senior years in the College of Science and graduate with the Degree of Bachelor of Science.

The College of Mechanic Arts and Engineering.

FACULTY.*

J. L. BUCHANAN, President, Political Economy.
C. V. KERR, Mechanical Engineering, Superintendent
of Mechanic Arts.
A. E. MENKE and W. B. BENTLEY, Chemistry and
Physics.
H. RANDOLPH and G. W. DROKE, Mathematics.
J. F. MCNEILL and S. E. MEEK, Biology and
Geology.
R. H. WILLIS and IDA PACE, English.
J. F. HOWELL, History and Pedagogics.
E. CHANDLER, Military Science and Tactics.
W. N. GLADSON, Electrical Engineering.
J. J. KNOCH, Civil Engineering.
MACK MARTIN, Machine Shop, Mechanics.
F. P. NICHOLAS, Wood Shop.
G. W. BASHAW, Foundry and Forge Shop.
C. S. DUGGANS, Engineer.
JESSIE L. CRAVENS, Elocution.

REQUIREMENTS FOR ADMISSION.

(See pages 32-36.)

*Students in this college must consult Professor Kerr immediately after registration.

GENERAL DESCRIPTION OF COURSES IN ENGINEERING.

Mechanical Engineering directs the design and construction of all forms of machines, and their installation in machine shops, mills, and factories. It directs the design, construction, erection, and operation of boilers, steam and gas engines, locomotives, turbines, and other prime movers; of pumping machinery for waterworks; of machinery and apparatus for the manufacture of ice, the distribution of refrigeration from central stations and

the heating and ventilation of buildings. Since the utilization of the forces and materials of nature is accomplished in nearly all classes by machines, or by processes working through machinery, it is evident that mechanical engineering is the basis of all industries.

Civil Engineering embraces the location and construction of railroads, canals, waterworks, sewerage systems, foundations on land and in water, tunnels, and superstructures; the surveys, improvements, and defenses of coasts, harbors, rivers, and lakes; the application of mechanics, descriptive geometry, and graphics to the design and construction of arch bridges, roofs, truss and suspension bridges; the irrigation and drainage of lands; and the location and maintenance of public roads.

Electrical Engineering deals with the design and construction of dynamos and motors; the distribution of electricity for use in illumination, or for driving machinery; the construction and operation of electric railways; the erection and management of telegraph and telephone lines; and with electrolysis and welding of metals. Theoretical and applied electricity, and mechanical engineering are naturally the leading subjects. Theory is treated in ample breadth and tested by experiments in well equipped laboratories, which affords the student a degree of facility in the use of machines and instruments acquired only by continued practice.

At the close of their senior year, all engineering students study a synopsis of the law of contracts, including competency, legality of agreement, consideration, construction and discharge of contracts;

and the forms of specifications and accompanying documents covering all branches of engineering work. Another important feature of the engineering courses is the *thesis*, an original work planned and executed by the student, the purpose of which is not only to prepare for special work after graduation but to indicate how much nature and education have done toward fitting the student for the engineering profession.

The courses of engineering offered are designed to supply not only mental training but the means of securing a livelihood in the professions to which they lead. It is believed that the most efficient way to teach theory is to unfold it to the student only so fast as he can apply it to the practical work of his course. He thus makes it his own, and theory becomes practice.

CIVIL, MECHANICAL AND ELECTRICAL ENGINEERING.

FRESHMAN YEAR.

	Hours per week.	
	1st Term.	2d Term.
Geometry and Plane Trigonometry, (<i>Math. 2</i>)...	3	3
Algebra, (<i>Math. 1</i>).....	2	2
General Physics, (<i>Physics 1</i>).....	5	5
English Language and Literature, (<i>English 1</i>)..	3	3
Drawing, (<i>M. E. 2 c.</i>)	2	2
Machine Shops, (<i>M. E. 12</i>).....	4	4

SOPHOMORE YEAR.

{ Spherical Trigonometry, Analytical Geometry } (<i>Math. 3 and 4</i>).....	5	5
{ Calculus, (<i>Math. 6</i>)		
General Chemistry, (<i>Chem. 3</i>).....	5	5
Physical Measurements, (<i>Phys. 2</i>).....	2	2
or English and American Literature, (<i>English 2</i>)	2	2
Surveying and Highways, (<i>C. E. 2</i>).....	2	2
Field Practice, (<i>C. E. 3</i>).....	2	2
Descriptive Geometry, (<i>C. E. 1</i>).....	2	2

MECHANICAL ENGINEERING COURSE FOR DEGREE OF
B. M. E.

JUNIOR YEAR.

	Hours per week.	
	1st Term.	2d Term.
Calculus, (<i>Math. 5</i>).....	5	
Steam Engines and Boilers, (<i>M. E. 11</i>).....		3
Elements of Mechanism, Valve Gears and Indi- cator Practice, (<i>M. E. 4, 5, 6</i>).....	3	3
Drawing: Machine Design, (<i>M. E. 7</i>).....	2	2
Mechanical Laboratory, (<i>M. E. 10</i>).....	2	2
Political Economy, (<i>P. and E., 3</i>).....	2	2
Mechanics, (<i>M. E. 12, 13</i>).....		5
Masonry Construction, (<i>C. E. 9</i>).....		2
Dynamo Electric Machinery, (<i>E. E. 7</i>).....	5	

SENIOR YEAR.

Mechanics and Graphics, (<i>M. E. 13, 14, 15</i>).....	5	
Fly-wheels and Governors, (<i>M. E. 9</i>).....	2	
Metallurgy of Iron and Steel, Refrigeration, Heating and Ventilation, (<i>Chem. 12, M. E. 16, 17</i>).....	3	3
Locomotive Mechanism, Electric Railways, (<i>M. E. 20, E. E. 10</i>).....	2	2
Gas Engines, Turbines, (<i>M. E. 21, 19</i>).....	2	2
Pumping Machinery, (<i>M. E. 18</i>).....		2
Engineering Laboratory, (<i>C. E. 16</i>).....	2	2
Drawing: Boiler and Engine Design, (<i>M. E. 8</i>)	2	2
Contracts and Specifications, (<i>E. E. 19</i>).....		3
Thesis.....	<i>Time Necessary.</i>	

CIVIL ENGINEERING COURSE FOR DEGREE OF B. C. E.

JUNIOR YEAR.

	1st Term.	2d Term.
Calculus, (<i>Math. 5</i>).....	5	
Steam Engines and Boilers, (<i>M. E. 11</i>).....		3
Railroad Engineering, (<i>C. E. 5</i>).....	3	2
Economic Geology, (<i>Geology 3</i>).....	3	
Practical Geology, (<i>Geology 3</i>).....	1	1
Political Economy, (<i>P. and E., 3</i>).....	2	2
Mechanics, (<i>M. E. 12, 13</i>).....		5
Masonry Construction, (<i>C. E. 9</i>).....		2
Mine Engineering, (<i>C. E. 10</i>).....	1	
Field Practice, (<i>C. E. 6</i>).....	2	2
Drawing, (<i>C. E. 8</i>).....	2	2

SENIOR YEAR.

	Hours per week,	
	1st Term.	2d Term.
Mechanics and Graphics, (<i>M. E. 13, 14, 15</i>).....	5	
Metallurgy of Iron and Steel, (<i>Chem. 12</i>).....	3	
Pumping Machinery, (<i>M. E. 18</i>).....		2
Sanitary Engineering, (<i>C. E. 12</i>).....	2	
Arches and Dams, (<i>C. E. 14</i>).....	1	
Drawing: Stereotomy, (<i>C. E. 13</i>)	2	2
Waterworks, (<i>C. E. 15</i>).....		3
Roofs and Bridges, (<i>C. E. 11</i>).....	2	4
Field Practice, (<i>C. E. 17</i>).....	2	2
Contracts and Specifications, (<i>C. E. 19</i>).....		3
Engineering Laboratory, (<i>C. E. 16</i>).....	2	2
Thesis.....	<i>Time Necessary.</i>	

ELECTRICAL ENGINEERING COURSE FOR DEGREE OF

B. E. E.

JUNIOR YEAR.

	1st Term.	2d Term.
Calculus, (<i>Math. 5</i>).....	5	
Steam Engines and Boilers, (<i>M. E. 11</i>).....		3
Dynamo Electric Machinery, (<i>E. E. 7</i>).....	5	
Political Economy, (<i>P. and E., 3</i>).....	2	2
Theory of Alternate Currents, (<i>E. E. 8</i>).....		2
Elements of Mechanism, Valve Gears and Indicator Practice, (<i>M. E. 4, 5, 6</i>).....	3	3
Electrical Laboratory, (<i>E. E. 5</i>).....	2	2
Technical Drawing, (<i>E. E. 3</i>).....	2	2
Mechanics, (<i>M. E. 12, 13</i>).....		5

SENIOR YEAR.

Mechanics and Graphics, (<i>M. E. 13, 14, 15</i>).....	5	
{ Metallurgy of Iron and Steel, (<i>Chem. 12</i>)... }	3	2
{ and Alternate Current Machinery, (<i>E. E. 9</i>) }		
Turbines, (<i>M. E. 19</i>).....		2
Theory of Alternate Currents, (<i>E. E. 8</i>).....	2	1
Electric Railways, (<i>E. E. 10</i>)		2
Engineering Laboratory, (<i>C. E. 16</i>).....	2	
Absolute Measurements, Photometry, (<i>E. E. 12</i>)	2	1
Technical Drawing, (<i>E. E. 4</i>).....	2	2
Electrical Laboratory, (<i>E. E. 6</i>).....	2	2
Electrical Design, Telephone and Telegraph, (<i>E. E. 13, 11</i>).....	1	2
Contracts and Specifications, (<i>C. E. 19</i>).....		3
Thesis.....	<i>Time Necessary.</i>	

SHORT COURSE IN ELECTRICAL ENGINEERING.

This course is intended for students lacking time and preparation for the full course, and is especially designed for those students who have had some practical experience in engineering.

The work is more elementary in character than the long course, embracing only the necessary mathematics, which with physics, electrical engineering, and laboratory work, gives the student sufficient theory, supplemented by practice, in the shortest possible time.

This course prepares students for practical work, such as managing or superintending lighting, power or manufacturing plants. It does not lead to a degree, but a suitable certificate will be given on completion of work.

For laboratory facilities, see Electrical Laboratory, page 22.

FRESHMAN YEAR.

	Hours per week.	
	1st Term.	2d Term.
Algebra, (<i>Math. 1.</i>).....	2	2
Geometry, Plane Trigonometry, (<i>Math 2.</i>)	3	3
General Physics, (<i>Physics 1.</i>).....	5	5
Drawing, (<i>M. E. 2c.</i>).....	2	2
Shop Work, (<i>M. E. 1.</i>).....	4	4
English Language and Literature, (<i>English 1.</i>)	3	3

SOPHOMORE YEAR.

	Hours per week.	
	1st Term.	2d Term.
Electrical Engineering, (<i>E. E. 2.</i>).....	3	3
Electrical Laboratory, (<i>E. E. 5, 6.</i>).....	4	4
Technical Drawing, (<i>E. E. 3.</i>).....	2	2
{ Shop Work, (<i>M. E. 1.</i>).....	2	2
{ and Physical Measurements, (<i>Physics 2.</i>).....	2	2
{ or Surveying and Field Practice, (<i>C. E.</i>		
2, 3.)	4	4
Elements of Mechanism, Valve Gears and Indi- cator Practice, (<i>M. E. 4, 5, 6.</i>)	3	3
Engine and Boiler Running, (<i>M. E. 1c.</i>)	2	
Management of Dynamos and Motors, (<i>E. E. 1.</i>)		2

TRADES COURSES.

These courses are of four years' duration beginning with the first preparatory class, instead of six as in the regular Engineering Courses. They are intended to enable students to acquire sufficient skill at some mechanical occupation to earn a living by it. At the same time they secure a good general education. Thus the Trades Courses will enable students to become skilled as carpenters, blacksmiths, foundrymen, or machinists. The student who educates himself while learning his trade will have a decided advantage over the one who learns it by the apprenticeship system, and will more quickly rise to a position as foreman or superintendent. The Short Engineering Course will enable students to take charge of the boilers and engines of a power plant, and, receiving a practical knowledge of electricity as well as steam, they can, in small plants, run also the dynamos and motors for light and power.

All of these courses are the same for the first and second preparatory and Freshmen classes as for the regular engineering courses. Students receive a suitable certificate on completing one of these courses.

SOPHOMORE YEAR.

	Hours per week.	
	1st Term.	2d Term.
Shop Work, (<i>M. E.</i> 4.).....	4	4
Drawing : Machine Design, (<i>M. E.</i> 7.).....	2	2
Elements of Mechanism, Valve Gears, and Indi- cator Practice, (<i>M. E.</i> 4, 5, 6.).....	3	3
Surveying and Field Practice, (<i>C. E.</i> 2, 3.).....	4	4
General Chemistry, (<i>Chem.</i> 3.).....	5	5

NOTE 1.—Candidates for admission to the Freshman Class in the College of Mechanic Arts and Engineering will be examined in all the subjects required for admission to the University except Latin. The drawing and shop work will be made up after admission.

NOTE 2.—Every student is required to have the equivalent of fifteen recitations per week, in which two hours of drawing, or shop work, or laboratory work are counted as equal to one recitation. But he will not be allowed to have the equivalent of more than twenty recitations without the consent of the Faculty.

The College of Science.

FACULTY*

J. L. BUCHANAN, President, Psychology.
J. F. MCNEILL, Biology, Botany, Zoology.
A. E. MENKE and W. B. BENTLEY, Chemistry and Physics.
S. E. MEEK, Geology and Zoology.
H. RANDOLPH and G. W. DROKE, Mathematics.
R. H. WILLIS and IDA PACE, English and Modern Languages.
J. F. HOWELL, History and Pedagogics.
J. C. FUTRALL and E. F. SHANNON, Ancient Languages.
E. CHANDLER, Military Science and Tactics.
J. J. KNOCH, Civil Engineering.
JESSIE L. CRAVENS, Elocution.

REQUIREMENTS FOR ADMISSION.

(See pages 32-36.)

*All students in this college must consult Prof. McNeill immediately after registration.

GENERAL STATEMENT.

The design of the courses of study offered by this College is, first, to afford students a liberal education with some branch of science substituted for Latin or Greek, and second, to make some one subject in science so prominent that the graduate will have an excellent foundation for a profession. By requiring every graduate to spend at least three years on one branch of science, as chemistry or botany, he is obliged to go much beyond the easy introduction, which is all that is required in the old-fashioned B. S. course, so that he has the advantage of the severe mental discipline which a difficult

study affords; and when this course is completed, he has the satisfaction of knowing that he is the possessor of special knowledge which can be turned to immediate use, if he sees fit. Graduates of this College receive the degree Bachelor of Science (B. S.).

I. COURSE WITH CHEMISTRY.

The Course in Chemistry is designed to prepare students for actual work in connection with manufactures based on chemical principles. To the credit of chemistry as an industrial science, the tenth United States census shows, in the United States alone, the existence of 1,349 chemical establishments, employing 29,500 workmen and paying annual wages to the amount of \$11,820,728.

FRESHMAN YEAR.

	Hours per week.
Chemistry 3 (<i>General Chemistry</i>)	5
Physics 1 (<i>General Physics</i>)	5
English 1 (<i>English Language and Literature</i>).....	3
Mathematics 1 and 2 (<i>Algebra, Geometry, and Trigonometry</i>).....	5

SOPHOMORE YEAR.

Biology 1 (<i>General Biology</i>).....	3
Chemistry 5a (<i>Theoretical Qual. Anal.</i>) first term. }	3
Chemistry 6 (<i>Mineralogy</i>) second term.....	
Chemistry 4 (<i>Chemical Philosophy</i>) second term .. }	3
French 1 or Spanish 1.....	
History 2 (<i>General History</i>).....	3
Physics 2 (<i>Physical Measurements</i>).....	2
Chemistry 5b (<i>Practical Qual. Anal.</i>).....	3

JUNIOR YEAR.

Chemistry 7 (<i>Organic Chemistry</i>)	3
Geology 1 (<i>General Geology</i>).....	3
German 1.....	3
Chemistry 8 (<i>Quantitative Analysis</i>)	4
French 4 and 5.....	3

SENIOR YEAR.

	Hours per week.
Chemistry 12 (<i>Metallurgy</i>).....	3
Chemistry 10 (<i>Technical Chemistry</i>).....	3
German 4 and 5.....	3
Chemistry 11 (<i>Physical Chemistry</i>).....	3
Chemistry 9 (<i>Advanced Quantitative Analysis</i>) ..	4
Chemistry 13 (<i>Assaying</i>).....	

II. COURSE WITH BOTANY.

FRESHMAN YEAR.

Biology 1 (<i>General Biology</i>).....	3
Physics 1 (<i>General Physics</i>).....	5
English 1 (<i>English Language and Literature</i>).....	3
Mathematics 2 (<i>Geometry and Plane Trigonometry</i>)..	3
French 1.....	3

SOPHOMORE YEAR.

Botany 1 (<i>Systematic Botany</i>).....	3
Zoology 1 (<i>General Zoology</i>).....	3
Chemistry 3 (<i>General Chemistry</i>).....	5
French 4 and 5.....	3
History 2 (<i>General History</i>).....	3
English 2 (<i>American Literature ; Prose Style</i>)	2

JUNIOR YEAR.

Botany 2 (<i>General Morphology of Plants</i>)....	3
Entomology 1 (<i>General Entomology</i>)	3
Geology 1 (<i>General Geology</i>).....	3
German 1.....	3
Elective.....	5

SENIOR YEAR.

Botany 4 (<i>Vegetable Histology</i>).....	6
German 4 and 5.....	3
Psychology.....	3
Elective.....	5

III. COURSE WITH ENTOMOLOGY.

FRESHMAN YEAR.

Biology 1 (<i>General Biology</i>).....	3
Physics 1 (<i>General Physics</i>).....	5
English 1 (<i>English Language and Literature</i>)	3
Mathematics 2 (<i>Geometry and Plane Trigonometry</i>)	3
French 1.....	3

SOPHOMORE YEAR.

	Hours per week,
Botany 1 (<i>Systematic Botany</i>).....	3
Zoology 1 (<i>General Zoology</i>).....	3
Chemistry 3 (<i>General Chemistry</i>).....	5
French 4 and 5.....	3
History 2 (<i>General History</i>).....	3
English 2 (<i>American Literature; Prose Style</i>).....	2

JUNIOR YEAR.

Entomology 2 (<i>General Entomology</i>).....	6
Botany 2 (<i>General Morphology of Plants</i>).....	3
Geology 1 (<i>General Geology</i>).....	3
German 1.....	3
Elective	2

SENIOR YEAR.

Entomology 3 (<i>Economic Entomology</i>).....	6
Psychology.....	3
German 4 and 5.....	3
Elective.....	5

IV. COURSE WITH ZOOLOGY.

FRESHMAN YEAR.

Biology 1 (<i>General Biology</i>).....	3
Physics 1 (<i>General Physics</i>).....	5
English 1 (<i>English Language and Literature</i>).....	3
Mathematics 2 (<i>Geometry and Plane Trigonometry</i>).....	3
French 1.....	3

SOPHOMORE YEAR.

Botany 1 (<i>Systematic Botany</i>)	3
Zoology 1 (<i>General Zoology</i>).....	3
Chemistry 3 (<i>General Chemistry</i>).....	5
French 2 and 4.....	3
History 2 (<i>General History</i>).....	3
English 2 (<i>American Literature; Prose Style</i>).....	2

JUNIOR YEAR.

Zoology 2 (<i>Vertebrate Anatomy</i>).....	3
Botany 2 (<i>General Morphology of Plants</i>).....	3
Geology 1 (<i>General Geology</i>).....	3
German 1.....	3
Elective.....	4

SENIOR YEAR.

	Hours per week.
Zoology 4 and 5.....	6
Psychology.....	3
German 4 and 5.....	3
Elective.....	4

V. COURSE WITH GEOLOGY.

FRESHMAN YEAR.

Biology 1 (<i>General Biology</i>).....	3
Physics 1 (<i>General Physics</i>).....	5
English 2 (<i>English Language and Literature</i>).....	3
Mathematics 2 (<i>Geometry and Plane Trigonometry</i>).....	3
French 1.....	3

SOPHOMORE YEAR.

Botany 1 (<i>Systematic Botany</i>).....	3
Zoology 1 (<i>General Zoology</i>).....	3
Chemistry 3 (<i>General Chemistry</i>).....	5
French 4 and 5.....	3
History 2 (<i>General History</i>).....	3
English 2 (<i>English Prose Style</i>).....	2

JUNIOR YEAR.

Geology 1 and 2 (<i>General and Practical Geology</i>)....	5
German 1	3
Engineering 4 (<i>Surveying</i>).....	3
Elective.....	5

SENIOR YEAR.

Geology 2 (<i>Practical Geology</i>).....	2
Geology 4 or 5 (<i>Palaeontology or Petrography</i>).....	3
German 4 and 5.....	3
Psychology.....	3
Elective.....	6

The College of Liberal Arts.

FACULTY.

J. L. BUCHANAN, President, Psychology and Ethics.
R. H. WILLIS, English and Modern Languages.
H. RANDOLPH and G. W. DROKE, Mathematics, Astronomy, and Logic.
J. F. HOWELL, History and Pedagogics.
IDA PACE, English and Modern Languages.
J. C. FUTRALL and E. F. SHANNON, Ancient Languages.
A. E. MENKE and W. B. BENTLEY, Chemistry and Physics.
J. F. MCNEILL and S. E. MEEK, Biology and Geology.
E. CHANDLER, Military Science and Tactics.
JESSIE L. CRAVENS, Elocution.

REQUIREMENTS FOR ADMISSION.

(See pages 32-36.)

CLASSICAL COURSES FOR DEGREE OF BACHELOR OF ARTS (B. A.).

Each of these courses is designed to furnish a liberal education, to give superior mental discipline, and to prepare students to enter upon professional studies—law, medicine, journalism, etc. Each contains, besides English, not less than six yearly courses in languages, and at the same time the arrangement of elective studies allows students to give special attention to mathematics, to any branch of science, to history, or to one of the ancient or modern languages. Each class has such practical work as the subject requires, and optional studies in elocution or in other branches are allowed to the limit of twenty hours per week. The courses are merely outlined here. For details concerning the studies mentioned, consult Departments of Instruction, beginning on page 47.

I. COURSE WITH ANCIENT LANGUAGES.

FRESHMAN YEAR.

	Hours per week
Latin 1	3
Greek 1	3
Mathematics 1 (<i>Algebra</i>)	2
Mathematics 2 (<i>Geometry and Plane Trigonometry</i>) ..	3
English 1 (<i>English Language and Literature</i>)	3
Biology 1, Botany 1, or Zoology 1	3

SOPHOMORE YEAR.

Latin 2	3
Greek 2	3
English 2 (<i>American Literature; Prose Style</i>)	2
History 2 (<i>General History</i>)	3
History 3 (<i>English History</i>)	1
Physics 1 (<i>General Physics</i>)	5

JUNIOR YEAR.

Latin 4	3
Greek 3	3
English 4 (<i>Chaucer to Milton</i>)	2
Logic and Neurology	2
Political Economy	2
Elective	3

SENIOR YEAR.

Latin 5, or Greek 4	3
Psychology and Ethics	3
English 6 (<i>Philology</i>)	1
Elective	9

II. COURSE WITH MODERN LANGUAGES.

FRESHMAN YEAR.

Latin 1	3
French 1	3
Mathematics 1 (<i>Algebra</i>)	2
Mathematics 2 (<i>Geometry and Plane Trigonometry</i>) ..	3
English 1 (<i>English Language and Literature</i>)	3
Biology 1, Botany 1, or Zoology 1	3

SOPHOMORE YEAR.

Latin 2	3
French 2 and 4, or Spanish 1	3
English 2 (<i>American Literature; Prose Style</i>)	2
History 2 (<i>General History</i>)	3
History 3 (<i>English History</i>)	1
Physics 1 (<i>General Physics</i>)	5

JUNIOR YEAR.

	Hours per week.
English 3 (<i>Modern Poetry</i>).....	2
English 4 (<i>Chaucer to Milton</i>).....	2
German 1.....	3
French 3 or Spanish 1 or 2.....	3
Logic and Neurology or Astronomy.....	2
Political Economy.....	2
Elective.....	3

SENIOR YEAR.

English 5 (<i>Anglo-Saxon and Middle English</i>).....	3
English 6 (<i>Philology</i>).....	1
German 2, 3, and 4.....	6
History 8 and 9 (<i>French and German History</i>).....	2
Elective.....	4

Students of energy and ability are advised to take Greek as an optional study.

III. COURSE WITH MATHEMATICS.

FRESHMAN YEAR.

Mathematics 1 (<i>Algebra</i>).....	2
Mathematics 2 (<i>Geometry and Trigonometry</i>).....	3
Latin 1.....	3
French 1.....	3
English 1 (<i>English Language and Literature</i>).....	3
Biology 1, Botany 1, or Zoology 1.....	3

SOPHOMORE YEAR.

Mathematics 3 and 4.....	5
Latin 2.....	3
French 5.....	1
English 2 (<i>American Literature ; Prose Style</i>).....	2
Physics 1 (<i>General Physics</i>).....	5

JUNIOR YEAR.

Mathematics 6 (<i>Calculus</i>).....	3
German 1.....	3
Logic and Astronomy.....	2
Elective.....	8

SENIOR YEAR.

	Hours per week.
Mathematics 7 and 8.....	4
German 5.....	1
Psychology and Ethics.....	3
Elective.....	8

The required courses in languages are given above in full.

IV. COURSE WITH HISTORY.

FRESHMAN YEAR.

Latin 1.....	3
History 1 (<i>Constitutional History</i>).....	2
Mathematics 1 (<i>Algebra</i>).....	2
Mathematics 2 (<i>Geometry and Plane Trigonometry</i>)..	3
English 1 (<i>English Language and Literature</i>).....	3
Elective.....	3

SOPHOMORE YEAR.

Latin 2.....	3
History 2 (<i>General History</i>).....	3
History 3 (<i>English History</i>).....	1
English 2 (<i>American Literature; Prose Style</i>).....	2
{ Chemistry 3 (<i>General Chemistry</i>).....	5
{ or Physics 1 (<i>General Physics</i>).....	5
Elective.....	3

JUNIOR YEAR.

History 4 (<i>Ancient History</i>).....	2
Political Economy.....	2
English 4 (<i>Chaucer to Milton</i>)	2
Logic and Neurology.....	2
Elective.....	8

SENIOR YEAR.

History 6 (<i>European History</i>).....	2
History 7 (<i>American History</i>).....	2
Psychology and Ethics.....	3
English 6 (<i>Philology</i>).....	1
Elective.....	8

General Physics, General Chemistry, or General Biology is required for all Seniors who have not passed in one of these branches.

Elective Studies—Any subjects mentioned in the B. A. or B. S. courses above, if not counted already; and, also the Elements of Mechanism and Electricity. Except as provided above, or by special act of the Faculty, elective studies, if counted for a degree must be pursued for at least one year each; German for two years.

All students in the College of Liberal Arts will, immediately after registration in the President's office, consult Professor Howell in Room 14. He has general supervision of their work, their examinations for admission, choice of courses, electives, etc.

The Normal School

FACULTY.*

J. L. BUCHANAN, President.
J. F. HOWELL, History and Pedagogics.
A. E. MENKE and W. B. BENTLEY, Physics and Chemistry.
J. F. MCNEILL and S. E. MEEK, Biology and Geology.
R. H. WILLIS and IDA PACE, English.
E. CHANDLER, Military Science and Tactics.
J. C. FUTRALL and E. F. SHANNON, Latin.
H. RANDOLPH and G. W. DROKE, Mathematics.
JESSIE L. CRAVENS, Elocution.

REQUIREMENTS FOR ADMISSION.

(See Pages 32-36.)

*Normal Students must consult Professor Willis immediately after registration.

Section 6974 of the Revised Statutes of the State is as follows: "The State Superintendent of Public Instruction shall have power to grant State certificates, which shall be valid for life, unless revoked, to any person in the State who shall pass a thorough examination in all those branches required for granting county certificates, and also in algebra and geometry, physics, rhetoric, mental philosophy, history, Latin, the Constitution of the United States, and of the State of Arkansas, natural history, and the theory and art of teaching."

It will be observed that the course includes all the branches required for a state certificate in accordance with the law. After completing the Normal Course, students may take up in the Junior Class the work of any course for which they may be prepared, and compete for the corresponding degree.

NORMAL COURSE LEADING TO THE CERTIFICATE OF
LICENTATE OF INSTRUCTION (L. I.)

FRESHMAN YEAR.

	Hours per week.
Botany 1 (<i>Systematic Botany</i>).....	3
English 1.....	3
History 1 (<i>Constitutional History</i>).....	2
Latin 1.....	3
Mathematics 1 (<i>Algebra</i>)	2
Mathematics 2 (<i>Geometry and Plane Trigonometry</i>)..	
Pedagogics 1.....	2

SOPHOMORE YEAR.

History 2 (<i>General History</i>).....	3
Latin 2.....	3
Pedagogics 2, 3 and 4 (<i>General Physics</i>) ..	3
Physics 1 (<i>General Physics</i>).....	5
Zoology 1 (<i>General Zoology</i>)..	3

Graduate Courses and Degrees.

REQUIREMENTS FOR DEGREES OF C. E., M. E., OR E. E.

These courses of study are intended to more fully equip those students who have finished an undergraduate course in Engineering, for some special line of work for which their previous study has prepared them. The student will be given all possible liberty in selecting such specialties and will be limited only by certain general requirements. He will be required to make up at the beginning of the year the course which he proposes to follow and present it to the Faculty, approved by the instructors concerned. If accepted, it will be subject to change only by the Faculty. In general, it is expected that these courses shall comprise one principal subject based on the course already pursued and two secondary subjects, one or both of which should be closely related to the principal. The graduate course should amount to not less than fifteen recitation hours per week as counted in undergraduate work.

The subject of a thesis for any of the above degrees must be submitted to the Faculty for approval before the middle of the second term.

These degrees will also be given after three years to those graduates in Civil, Mechanical and Electrical Engineering who, having been in successful practice of their profession for that time, submit a satisfactory thesis on a subject approved by the Faculty.

REQUIREMENTS FOR THE MASTER'S DEGREE.

Applicants for the degree of M. A. or M. S. must have previously taken the Degree of B. A. or B. S. at this institution or at one having equal requirements. In addition they must take at the University, for a full scholastic year, not less than fifteen hours of recitations and lectures, as determined by the Faculty, and submit a satisfactory thesis.

Bachelors of Arts or of Science of this University may obtain the Master's degree without actual residence, but must complete the work mentioned above and pass satisfactory examinations upon it.

THE DEGREE OF DOCTOR OF PHILOSOPHY (PH. D.)

1. This degree will be conferred for distinguished attainments, as shown by examination and thesis, in any one of the five following subjects: Latin, Greek, German, French, English, and History, together with subordinate attainments in two others of the five; or for distinguished attainments in one principal and two subordinate, of the following sciences: Chemistry, Physics, Geology, Biology, Mathematics, Mechanics, Civil Engineering, and Electricity.

2. This degree shall be open to persons who have received the Degree of B. A. or B. S. at this institution, or at one having equal requirements. Ordinarily it will take three full years' study to complete the work required for this degree, and the last year or a longer time must be spent in resident study at this University.

3. A thesis of 4,000 words or more showing original research shall be required of every appli-

cant, the subject of which shall be announced and passed upon by a committee of the Faculty at least one year before the time set for the final examination, and the thesis itself must be presented to the committee two months before admission to this examination. Twenty-five copies of the approved and printed thesis shall be placed in the University Library.

4. All applicants for this degree must, by the end of the first year of the course, be sufficiently conversant with French and German to read with ease any scientific work written in these languages.

Charges.—Graduate students pay \$10 for matriculation and registration, \$10 tuition (non-residents \$5) at the beginning of each session, and \$10 in advance for the final examination. Students who fail to comply with any of these requirements, or who do not each year complete the equivalent of two terms' work in one subject, will be dropped from the rolls. Should such students desire to resume their studies, they must pay for matriculation and registration, as if beginning for the first time. The diploma fee is \$5 in advance in each case.

Graduates attending only undergraduate classes pay the same fee as undergraduates.

Non-resident students have such assistance and instruction in their studies as can be conveniently given by correspondence.

For graduate courses of study see pages 61, 64, 73, 74, 75, and 79.

University Extension.

The purpose of University Extension is to give instruction to persons who are unable to attend the University, and who wish to devote a limited portion of their time to study and culture. It is especially helpful to those who have already begun collegiate courses of study, or have had good high school courses, but persons of ordinary general information may derive much benefit in this way.

In the past, the extension work of this University has been limited to occasional lectures, given by professors usually for schools, and to the professors' work in teachers' institutes and in farmers' institutes (see School of Agriculture); in the future, the officers of the University hold themselves in readiness to give, within the State, courses of lectures at any conveniently accessible place, where such lectures may be desired.

Printed synopses for each course will be sent in advance for all persons who pledge themselves to study the course, and who register for it with the local manager. With these synopses there will be references to good literature on the subject, and other information. In connection with the lectures there will be further explanation in conferences or quizzes; and all persons who have attended the lectures, have the privilege of being examined upon their work and of having their credits entered on the University records. Persons who have passed satisfactory examinations upon twelve extension courses of six

lectures each, will receive a University extension certificate.

For a course of lectures no charge will be made beyond the expenses of the lecturer. This charge may be met by a small fee, paid in advance to the local manager, for each person attending the lectures.

Correspondence on the subject should be addressed to the President of the University.

SINGLE LECTURES FOR ARKANSAS COMMUNITIES.

Wishing to make the University a direct benefit to the largest possible number of the citizens of Arkansas, the Faculty offer a number of single lectures free to schools in the State, to societies of a religious, scientific, or literary character, or to communities seeking general culture. In all cases the lecturer's expenses must be paid; but no further charge is made by the University, if the lecture is free to the public, or if the admission fee is merely a sum intended to cover the lecturer's expenses.

AIDS TO PRIVATE STUDY.

The University will do all in its power to aid and stimulate culture in every form; and references, advice, and any other help that may be practicable, will be cheerfully given to citizens who wish to follow courses of reading, either special or general, or to make scientific investigations, or to acquire useful information of any kind.

TEACHERS' NON-RESIDENT COURSES.

The University offers special opportunities to all teachers in Arkansas. It will admit them to its

regular examinations for admission to the Freshman class, or will send the examination questions to county examiners, who will submit them to teachers under usual rules and return answers to the University. Teachers who pass the required entrance examinations, may then matriculate and enter upon non-resident courses of study under direction of the University professors; and upon completion of one term's work in any branch, they will be examined upon said work and credited with it, if it comes up to the University standard.

After finishing three-fourths of the course for a bachelor's degree, such teacher-students may graduate by completing the course as regular resident students.

Non-resident study is pursued under disadvantages, and none but energetic and methodical persons, who are willing to practice much self-denial, can succeed in such work. Such courses of study are in many respects less thorough than study under regular instruction at the University. Yet thousands of persons who cannot attend college regularly, are thus educating themselves; and the self-reliant habits of study and investigation acquired by successful work of this kind are of untold value.

Teachers accepting this offer must obtain not less than two credits (two subjects passed for one term, or one subject for two terms), each year; else their names will be dropped from the rolls. Teachers whose vacation occurs during the session of the University, may supplement their non-resident study by attending the regular classes.

of the course.

SENIOR.	8..... 2:45.	2:45 3:45.	3:45 4:45.
	Ge T., Th..... Gry, M., W., F.. 1 2 Ch Ch Mil	German 5, Th.....	Drill, M. T. W.
JUNIOR.	Lat 1, W..... Eng Ge Zoo	2 Neurology, W., F.....	Drill, M. T. W.
	8, M., T., W., Th		
SOPHOMORE.	Engling, T., Th., F.. Ped 2 C Ch 5b, M., W..... Fre 6, T., Th., F.. — 1, M..... — 3, M., W..... Des	Spanish 1, T., Th., F..... French 2, T., Th.....	Drill, M. T. W
FRESHMAN.	Ma., Th., F..... Entory, M., W.... Lat Ch	French, T., Th., F..... Greek, M., W., F..... Mil. Science, Th.....	Drill, M. T. W.
	Ph 1., T..... Bio		

SCHEDULE OF COLLEGIATE RECITATIONS.

Figures to the left show the term during which the subject is studied. Those to the right show the number of the course.

Preparatory Department.

INSTRUCTORS.

B. J. DUNN, Principal, Instructor in Mathematics.
G. A. COLE, Instructor in Mathematics.
MARY E. WASHINGTON, Instructor in English.
NAOMI J. WILLIAMS, Instructor in Latin and History.
MRS. E. W. COLE, Instructor in History and Mathematics.
MARY DAVIS, Instructor in English.
JESSIE L. CRAVENS, Instructor in Elocution.
W. B. BENTLEY, Acting Instructor in Chemistry.
G. W. DROKE, Acting Instructor in Mathematics.
S. E. MEEK, Acting Instructor in Physiology.
W. N. GLADSON, Acting Instructor in Drawing.
W. F. BATES, Instructor in Agriculture.
ANNA H. EDMISTON, Instructor in Instrumental Music.
MRS. A. D. DAVIS, Instructor in Vocal Music.
F. P. NICHOLAS, Instructor in Woodworking.
G. W. BASHAW, Instructor in Foundry and Forging.
MACK MARTIN, Assistant in Mathematics.
C. J. ELD, Assistant in English.
GEORGE VAUGHAN, Assistant in Latin.

The Preparatory Department is intended, first, to prepare students for any of the courses of study taught in the University ; second, to furnish to those who cannot take a more extended course, as good a general education as the limited time will permit ; third, to prepare teachers for the public grammar schools of the state. To secure these ends, three courses of study are offered.

REQUIREMENTS FOR ADMISSION.

1. *Arithmetic*.—Students are examined in the whole of Wentworth's Grammar School Arithmetic, and an accurate knowledge of all this is rigidly required. Teachers preparing pupils for admission

should require them to learn principles and definitions accurately and to analyze every example capable of analysis, or should give them thorough drill in mental arithmetic.

2. *English Grammar*.—Maxwell's Elementary Grammar.

3. *Geography*.—The whole of some complete manual of Geography, such as Maury's or Frye's.

4. *Reading, Spelling and Writing*.—Proficiency in these subjects is tested by the examination in Grammar.

NOTE.—Candidates for second year, general course, will be examined in Arithmetic, Algebra to fractional equations, Maxwell's Advanced Grammar, History of the United States, Descriptive Geography, and Latin (Collar and Daniell).

Agricultural, scientific, and engineering students are not examined in Latin, but in Physical Geography and in Bookkeeping instead. Students entering after the session has begun will be examined also in the work passed over by their classes.

ORDER OF EXAMINATIONS FOR ADMISSION.

Wednesday, Sept. 16, 9 a. m.: Registration of students; 1-4 p. m.: Algebra, Geography.

Thursday, Sept. 17, 9-12 m.: Arithmetic; 1-4 p. m.: Latin.

Friday, Sept. 18, 9-11 a. m.: English Grammar; 11-12 m.: English Composition; 1-4 p. m.: United States History, General History.

DETAILED WORK OF THE COURSES.

FIRST YEAR.

Mathematics, 5.—Wentworth's High School Arithmetic, page 120 to the end; Wentworth's Algebra to page 130.

English, 4.—Maxwell's Advanced Grammar ; Lamb's Tales of Shakespeare ; four original essays per term, corrected and copied ; Guerber's Myths of Greece and Rome.

Parallel Reading.—Cooper's Spy, and Red Rover ; Longfellow's Evangeline ; Whittier's Lexington and Yorktown ; Shakspeare's Comedy of Errors ; lives of the above authors.

Latin, 4.—Collar and Daniell's Beginner's Latin.

History, 3.—Chambers's United States History and Hempstead's History of Arkansas.

Physical Geography, 3.—Maury's Physical Geography.

Bookkeeping.—Messervey's Bookkeeping.

Woodworking, 8.—Principles of carpentry and joinery ; wood turning ; pattern making ; cabinet work. Sickel's Exercises in Woodworking.

Elementary Agriculture.—The reasons for the various farm operations, and the conditions under which they can be most successfully accomplished form the subject matter of the instruction.

Freehand Drawing, 2.—Practice work ; outline drawing from models and machine parts ; plans, elevations, sections, dimensions, etc.

SECOND YEAR.

Mathematics, 5.—Wentworth's Algebra, pages 130 to 260. Wentworth's Geometry, 4 books.

English, 4.—Raub's Rhetoric ; five essays per term corrected and copied ; Shakespeare's Julius Caesar and Tempest, and Scott's Talisman.

Parallel Reading: Eggleston's Pocahontas ; Cooke's Surrey of Eagle's Nest ; Franklin's Autobiography ; Longfellow's Hiawatha ; Campbell's Gertrude of Wyoming

Latin, 4.—Four books of Caesar (Harper and Tolman) or an equivalent ; Gildersleeve's Grammar.

History, 3.—Barnes's General History.

Physiology, 2—Martin's Human Body, Briefer Course, with experiments.

Chemistry, twice a week.—William's Introduction to Chemical Science ; lectures and written work.

Civil Government, 1.—Peterman's Civil Government, and Johnson's History of American Politics.

Founding, 4.—Moulding ; melting and pouring brass and iron ; management of cupola. Bollard's Iron Founding ; lectures and practice.

Elementary Dairy Husbandry.—The primary principles of dairy work are taught by class-room instruction, accompanied with daily practical work in the dairy.

Forging, 4.—Management of fire; drawing; welding; riveting; tempering. Lectures and practice.

Mechanical Drawing, 2.—Drawings of machine parts; lettering; line shading, etc.

AGRICULTURAL COURSE.

This course prepares students for the School of Agriculture.

FIRST YEAR.		SECOND YEAR.	
	Hours per week,		Hours per week,
Mathematics	5	Mathematics	5
English	4	English	4
History.....	3	History.....	3
Physical Geography...	3	Chemistry.....	2
Agriculture	2	Physiology	2
Farm or Shop Work ..	4	Agriculture	2
		Farm or Shop Work ..	4

ENGINEERING AND MECHANIC ARTS COURSE.

FIRST YEAR.		SECOND YEAR.	
	Hours per week,		Hours per week,
Mathematics	5	Mathematics	5
English	4	English	4
History.....	3	History	3
Bookkeeping	1	Civil Government	1
Drawing	1	Physiology	2
Woodworking.....	4	Drawing	1
		Founding	2
		Forging	2

NOTE.—Candidates for admission to the Freshman Class in the College of Mechanic Arts and Engineering will be examined in all the subjects required for admission to the University, except Latin.

GENERAL COURSE.

This course prepares students for the College of Liberal Arts or the College of Science or for the Normal School. It gives a limited general education to students who cannot take a collegiate education.

FIRST YEAR.		SECOND YEAR.	
	Hours per week.		Hours per week.
Mathematics	5	English	4
English	4	History	3
History	3	Physiology.....	2
Latin.....	4	Latin.....	4
		Mathematics	5

NOTE.—If a student is preparing to enter the College of Science, he may substitute Bookkeeping and Physical Geography for first Latin, and Chemistry and Agriculture (or Civil Government) for second Latin.

Special courses of study are not allowed in the Preparatory Department, but students known to be in poor health or having physical defects which interfere with their studies, are sometimes permitted by the Faculty to defer one or more subjects of study and extend the course over a longer period.

Students who have at any time been enrolled in the Preparatory Department, must complete all the studies in one of its courses before dropping preparatory work; and studies in lower classes have precedence over higher ones. A student in the Preparatory Department is a member of the highest class with which he has as many as eight recitations per week.

School of Medicine.

Little Rock, Arkansas.

PRELIMINARY FALL COURSE.

- E. BENTLEY, M. D., Surgical Pathology.
E. E. MOSS, A. M., L. L. B., Legal Medicine.
L. P. GIBSON, Minor Surgery and Bandaging.
C. WATKINS, M. D., E. R. DIBRELL, M. D., Physical
Diagnosis.
L. R. STARK, M. D., Diseases of Children.
S. H. KEMPNER, M. D., Urinary Analysis, Microscopy
and Bacteriology.
J. J. McALMONT, M. D., Hygiene.
F. VINSONHALER, M. D., Diseases of Throat.
W. H. MILLER, M. D., Emergencies.
F. H. CLARKE, Local Forecast Official U. S. Weather
Bureau, Meteorology.

NOTE—The names of the entire Medical Faculty are given on pages 8 and 9.

The Regular Winter Course of lectures will begin on Thursday, November 2, 1896, and continue twenty-four weeks.

Lectures will be delivered daily during the six days of each week.

The matriculation book will be opened on and after September 1, to students desiring to matriculate early and secure choice of seats.

The Preliminary Fall Course, which is given gratis to all students, will begin on Wednesday, October 1, 1896, and continue to Thursday, November 2, 1896, when the regular winter session opens.

In making this annual announcement the Faculty feel great satisfaction in referring to the continued

success and prosperity of the Medical School. The cordial indorsement of the Arkansas State Medical Society and the generous influence of the medical profession throughout the State are cordially appreciated and accepted by the Faculty, as an encouragement to them to continue the arduous labors they have so long and so zealously maintained.

ASSOCIATION OF AMERICAN MEDICAL COLLEGES.

At the meeting of the Association of American Medical Colleges at Baltimore, in May, 1895, it was determined to extend the course of study to four years, and it was resolved with great unanimity to require of all new matriculates, beginning with the school year of 1895-'96, as one of the requirements for graduation, that they should attend *four* courses of lectures of not less than six months each. The Medical Department of the Arkansas Industrial University, being a member of the College Association, adopts and will carry out these requirements, beginning at once with the session of 1895-'96.

CURRICULUM.

First Year.—Anatomy, Practical Anatomy, Physiology, Chemistry, Physics, Histology and Medical Ethics.

Second Year. Anatomy, Practical Anatomy, Physiology, Chemistry, Materia Medica, Pathology, Obstetrics.

Third Year.—Materia Medica and Therapeutics, Toxicology, Obstetrics and Diseases of Children,

Physical Diagnosis, Diseases of the Eye and Ear, Practice of Medicine, Surgery.

Fourth Year.—Review of all branches—Practice of Medicine, Surgery, Dermatology, Gynecology, Bacteriology, Urinology, Venereal Diseases, Diseases of the Nervous System, Medical Jurisprudence.

LOCATION.

The city of Little Rock is very happily situated, being central in the State and a goodly distance from any other large city. Railroads enter from every direction, making it an easily accessible point.

It has a population of upwards of 40,000 people, and has always been classed as one of the healthiest cities west of the Mississippi River. Few cities can boast of better public schools, colleges, and universities than Little Rock. All the eleemosynary institutions in the State are located here. There are the Blind, Deaf-Mute, and Insane Asylums.

COLLEGE BUILDING.

The new structure is an imposing edifice, three stories in height, constructed of brick, and admirably arranged for the convenience of both students and instructors.

It has a large lecture hall, fine amphitheater with chairs, a library, a reading room, a museum, and several private dissecting rooms, all well lighted and ventilated. In fact, it is designed to be a model medical college building. It is situated on Second and Sherman streets.

HOSPITALS.

The Little Rock Infirmary, a new institution designed solely for the treatment of acute diseases, has a capacity of fifty beds. This hospital, splendidly equipped and furnished with modern conveniences and improvements, is in the very best sanitary condition, and under the supervision and management of trained nurses—Sisters of Charity.

The Pulaski County Hospital has just been erected at a cost of some \$30,000. It is a handsome brick structure, well arranged, complete in all its equipments, and has a capacity of 200 beds. It is under the general direction of the Judge of Pulaski County, and is also benevolent in character. In this institution the chronic diseases and injuries of long standing will generally predominate.

Sufferers from railway accidents, marine patients, and the sick and injured from the city, county, and State, find in these hospitals shelter, food, raiment, and that Christian attention so cheering and comforting in sickness and distress.

Their inmates embrace all classes and conditions of unfortunates—white, colored, male, female, adults, and children—and with them are found almost every character and form of sickness, except contagious diseases, which are otherwise provided for.

THE ISAAC FOLSOM CLINIC.

Every student of this department is required to attend the Isaac Folsom Clinic, and each candidate for graduation must pass a thorough examination on

clinical instruction herein received, and this fact will be specially mentioned on the face of his diploma.

The instruction of this clinic is eminently practical in every particular, and is attended by a very large number of outdoor patients from the city and surrounding country. It embraces a wide range of troubles of various forms, character and condition, in fact the larger portion of the ills that humanity has to contend with, both medical and surgical. Hence the advantages of this daily Clinic, for those who desire ocular demonstrations, can hardly be estimated.

METHODS OF TEACHING.

Instruction in this department will be given by didactic and clinical lectures, by practical work in the dissecting room, and in the chemical and physiological laboratories, and by daily quizzes upon the subject of preceding lectures.

When the subject will admit of it, each branch will be so illustrated by means of diagrams, charts, models, and instruments, as to address the understanding of the student through the medium of sight as well as hearing.

THE EXPENSES OF LIVING, ETC.

The expenses of living in the city of Little Rock will, of course, vary according to the views and habits of students. Good board, at the present time, including lodging, fuel and lights, may be had, at a convenient distance from the College, at from \$4 to \$6 per week, and from \$13 to \$18 per month.

The list of parties desiring to board medical students will be found at the College building.

Persons desiring further information are requested to address the Secretary of the Faculty.

REQUIREMENTS FOR ADMISSION.

Applicants must be eighteen years of age and must present a certificate of good moral character and a diploma of graduation from a good literary and scientific college or high school, or a first-class grade teacher's certificate. Lacking this, they must pass a thorough examination in the branches of a good English education, including mathematics, English composition, and elementary physics or natural philosophy. This is in conformity with Article III, American Medical College Association.

TERMS.

The fee for a full course of lectures will be: General tickets, \$50; Maltricolation ticket (paid but once), \$5; Demonstrator's ticket for each course, \$5; Hospital ticket, each course, \$3; graduation fee, \$25.

No variation is made, under any circumstances, from the established fees of the College, they having been placed originally at the very lowest figure commensurate with the interests of both student and College.

For more specific information and catalogue apply to

E. R. DIBREL, M. D.,
Secretary of Faculty,
Little Rock, Ark.

NOTE—Alumni are requested to inform the Secretary of their present post office address, and of any change of location, in order that they may have the annual catalogue forwarded them regularly.

Law Department.

Little Rock, Ark.

F. M. GOAR, Dean.

G. B. ROSE, J. FLETCHER, J. C. MARSHALL, J. H. CARMICHAEL,	}	Lecturers.
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The Law course is arranged for two years, divided each into two terms. Fall term commences October 1, and closes January 31. Spring term commences February 1, and closes June 1.

Course of Instruction.—The design of this school is to afford such training in the fundamental principles of the law, as will constitute the best preparation for the practice of the profession anywhere in the United States, and especially in the State of Arkansas. With this view the course of study comprises the following subjects :

Junior Year.—First Term—Contracts, Lawson. Agency, Mechem, Lectures. Partnership, Parsons, Lectures. Commercial Paper, Daniel. Domestic Relations, Schouler, Lectures.

Second Term.—Criminal Law, Harris. Evidence, Vol. I., Greenleaf. Code Pleading, Bliss. Judgments, Freeman, Lectures. Leading Cases. Moot Courts.

Senior Year.—First Term—Law of Private Corporations, Cook. Municipal Corporations, Lectures. Bailments, Schouler. Insurance, Lectures. Torts, Cooley. Moot Courts.

Second Term—Real Property, Tiedeman; Equity Jurisprudence, Bispham; Equity Pleading, Langdell, Lectures; Constitutional Limitations, Cooley; Conflict of Laws, Lectures; Fraud and Fraudulent Conveyances, Lectures; leading cases; moot courts.

The First Term of the Junior year, it will be observed, comprises subjects specially suited for a Commercial course. Those who do not contemplate the law as a profession, but propose embarking in some branch of commerce, will find this Term replete with needful information for a business life. Contracts, Agency, Partnership, Commercial Law, and Domestic Relations, (including those of Husband and Wife, Parent and Child, Guardian and Ward, and Master and Servant), are subjects which arise daily in the experience of a business man. We commend this course to all those who have taken or contemplate taking a Commercial Course.

Students will be matriculated at any time during either term. But it is very important that, if possible, they be present at the beginning of the session, as two full years are requisite for the thorough mastery of the prescribed course. "He who is not a good lawyer when he comes to the bar, will seldom be one afterwards," is a saying full of truth.

Thought as well as reading is necessary to the proper understanding of our system of jurisprudence. No man can hope to be a great lawyer by the cramming process. While students are advised not to attempt to complete the full course in a single year, yet if one chooses to make the effort, and has

acquired sufficient knowledge of the law from previous reading, he will be admitted to the graduating examination, and if he attains the standard required, will be entitled to his degree. Every candidate for the honor degrees will be required to attend the full term of two years.

EXPENSES.

Tuition, \$50 per session, payable \$10 in advance, and \$5 per month thereafter during the session. Books will cost from \$20 to \$30 per year. Board from \$15 to \$20 per month; by the club system, where the students do their own work, from \$6 to \$10 per month.

Cheap lodgings may be obtained by consulting the Dean of the Faculty before the opening of the session, and the cost of living need not be greater in Little Rock than elsewhere in the State.

Many reasons may be given why young men contemplating the practice of law in Arkansas should patronize their own law school. First, in the application of the elementary principles of law in the practice, the reference books must be in the main to the laws of the State where the law school is located, as found in the Constitution, Statutes, and Supreme Court Reports of the State. Second, emulation and class organization will do much for the law student.

The old way of serving a term in a private law office of a senior at the bar is fast yielding to more modern and better methods.

“The time has gone by when an eminent lawyer in full practice can take a class of students into his office and become their teacher. Once that was

practicable, but now it is not. The consequence is that law schools are now a necessity."—*Chief Justice Waite.*

Again, the associations and friendships formed with representative young men throughout the State are invaluable in many respects to the practitioner.

EXAMINATIONS AND DEGREES.

Written examinations are held each term in the presence of a member of the Faculty. Questions are submitted at the time of the examination, and the value of the answers carefully estimated. The Degree of Bachelor of Laws is conferred by the Board of Trustees on recommendation of the Faculty on the members of the Senior Class whose examinations show a satisfactory acquaintance with the prescribed Course. Candidates for a degree are required to file with the Faculty an essay or thesis on some topic connected with their studies.

MOOT COURTS.

Moot courts are held from time to time during the term, in which students discuss cases previously assigned them for that purpose by the Professor. These courts are presided over by the professor, who, at the conclusion, reviews the arguments and gives his decision upon the points involved. The effort here is to make not merely theoretical but practical lawyers; not to teach principles merely, but how to apply them. To this end the Moot Court is made the forum for the discussion of such

practical questions as most frequently arise in a professional career at the bar ; and the attention of the Faculty is directed not less to the application of the points discussed to actual cases, than to the elucidation of the legal questions. An opportunity is afforded all the Senior students to participate in this court, and all Junior students of the second term.

Moot Courts are conducted on the theory that certain facts are true, and that the only subject open to discussion is the rule of law to be applied to them. The student, having obtained from the Faculty a statement of facts, is required to prepare pleadings, and draw up a brief in which the rules of law are stated under appropriate divisions and sustained by authorities which he proposes to rely upon in his oral argument.

The pleadings are submitted to the Professor. He calls the student's attention to such errors as may exist, and gives such other practical information as he may deem advisable.

Professional Ethics.—While endeavoring to impart legal knowledge, the fact will not be lost sight of that a high moral standing is a most important requisite to a successful and honorable career, and no pains will be spared in impressing this fact upon students and inculcating a high tone of professional ethics and action.

The law department at Little Rock is exceedingly fortunate in its surroundings. Students have free access to the Supreme Court Library of about 20,000 volumes. Every court known to our system of jurisprudence, both State and Federal, is held in Little Rock during each session of the school except

two (Supreme Court of U. S., and Court of Claims at Washington). Besides there is a large and eminent bar to draw our lecturers from, which has manifested great interest in the school from the first.

For any additional information address

F. M. GOAR,

Little Rock, Ark.

The Branch Normal College.

GENERAL STATEMENT.

The Branch Normal College is a department of the Arkansas Industrial University, established pursuant to an act of the General Assembly of the State of Arkansas, approved April 25, 1873, and has been in operation since September 27, 1875. Its primary object is the training of teachers for efficient service in the colored public schools of the state—the law referred to having been enacted with special reference to the “convenience of the poorer classes.” For the purpose of carrying out the intent of the law, tuition is made free to all appointees; the only requirements for admission being suitable age and qualification, and appointment from one of the County Judges, and the payment of the entrance fee of \$5. Other students pay, in addition to the above, \$1.00 per month in advance.

LOCATION, ETC.

The school property consists of a beautiful tract of twenty acres of ground, in the suburbs of Pine Bluff, Jefferson County, Arkansas, and a few rods from the junction of the Little Rock, Mississippi River & Texas and “Paramore” Railroads. The school building, completed in 1881, and occupied January 30, 1882, is one of the handsomest educational edifices in the state, as well as one of the best, being warm and comfortable, well lighted and ventilated. It contains one large assembly room, four recitation rooms, and cloak room for males and fe-

males. The building is of brick, with slate roof and trimmings of Alabama granite, and cost, with improvements and furniture, \$12,000. The furniture and other equipments are of the best modern style.

The Dormitory, a handsome brick building of seventeen rooms, and the Mechanical Department building, are upon the same grounds.

The Normal course of study is intended to be a full equivalent to a regular college course up to and including the Sophomore year; the only difference being the substitution of Pedagogy for Greek and the higher mathematical branches. The college course adds to this the usual studies of the last two years. Twelve classes have graduated from the Institution, and the members are now occupying prominent positions in life. The number of students for the year 1894-'95 was about 200.

THE LIBRARY.

The Library consists of over 3,000 volumes, embracing many valuable reference books, such as Appleton's Cyclopædia, Lippincott's Gazetteer, etc. It also has a fine collection of the works of standard authors, Shakespeare, Milton, Irving, Cooper, Dickens, Longfellow, Carlyle, Tennyson. The library of the principal, embracing many valuable text and reference books, including the Encyclopædia Britannica, is also accessible to students. A small collection of minerals each of which is a typical specimen, and none of which are duplicates, has been procured. During the past year a valuable supply of apparatus has been added to the educational resources of the institution, consisting of an air pump, electrical ma-

chine, standard barometer, batteries, French microscope, spectroscope, sets of weights and measures, common and metric, etc. The outfit of the Mechanical Department is not surpassed, if equalled in quality, by any in the State.

The Reading Room has been fitted up in elegant style and supplied with quite a number of valuable newspapers and periodicals, many of which are furnished by their publishers. Among those on file are the *Freeman*, Indianapolis; *Western Appeal*, Minneapolis; *Gazette*, Huntsville; *The Gazette*, Little Rock; *Globe-Democrat and Republic*, St Louis; *The Tyler*, Detroit, Mich.; *Popular Educator*, Boston; *Lippincott's Educational Quarterly*; *American Student*, New York; *Board of Education*, Chicago; *School Journal*, New York; *Weekly Echo*, Pine Bluff; *National Baptist*, Philadelphia; *Southern Review*, Helena; *American Machinist*, *Scientific American*, *Forum*, *Farm*, *Florist*, *Nation*, publications of American Statistical Association, scientific publications of the State of Arkansas and of the United States, etc.

DORMITORY FOR GIRLS, AND BOARDING HOUSE.

The Dormitory for female students is under the supervision of the Principal and his wife. It is a handsome brick structure sufficient for the accommodation of thirty or forty students. Board bills are payable monthly in advance, and no deduction is made for loss of time less than one week. Girls staying in the Dormitory are required to keep their own rooms and the halls clean, and to assist in turn, in the dining room and kitchen. They are expected to furnish their own bed linen, and are held respon-

sible for all damage to furniture in their rooms. They are not to visit each other's rooms, except by invitation from the occupant, and two are expected to occupy one room. They are not allowed to change rooms, nor to visit in town except by permission. The charge for board, fuel, and light thus far has been \$8 per month, in advance, and, if possible, that price will be continued.

MECHANICAL DEPARTMENT.

The operations of this department were begun under the superintendence of Prof. C. V. Kerr, Superintendent of Mechanic Arts at Fayetteville, assisted by Prof. W. S. Harris, a graduate of the Miller Manual Labor School of Virginia. The equipment is as follows :

The shop building was completed in February, 1892. It is of brick and covers a plat of ground 70x70, comprising a woodshop 35x35, a foundry 25x25, a blacksmith shop 25x25 and a machine shop 35x25. A boiler room 20x25 and a court 35x20 occupy the remaining space.

Wood Shop.—The equipment already secured includes 12 benches with complete sets of carpenters' tools, a double-circular sawing machine, a scroll saw, a buzz planer, and six wood turning lathes.

Foundry.—A Colliau cupola capable of melting 1 ½ tons of iron per hour is in position, and the remainder of the outfit will be added shortly. It includes ladles, moulders' tools, flasks, core oven, rumble, etc.

Forge Shop.—Twelve Buffalo forges are in position, the blast being supplied by a blower, and the smoke drawn off by a large exhaust fan. Besides the usual outfit of anvils, hammers, tongs, etc., there is a Buffalo punch shear and bar cutter capable of cutting off 1-inch bar iron $\frac{1}{2}$ x3-inch strap iron, or of punching a $\frac{3}{8}$ -inch hole in $\frac{3}{8}$ -inch iron.

Machine Shop.—Among the tools already ordered and partly in place, are a 15-inch crank shaper, 24x24x6 feet planer, 20-inch drill press, 15-inchx5 feet turret lathe, 18x6 inch engine lathe, 14 inch by 6 feet engine lathe, 12 inch by 50 feet hand lathe. universal milling machine, cutter and reamer grinder, twist drill grinder, power grindstone, dynamo, etc.

Heating and Power Plant.—Two vertical engines of 12-horse power each are in position, also two 30-horse tubular boilers. The piping for feed water is so arranged that the water passes from either pump or injector through a feed water heater to the boilers; and the exhaust piping is so arranged that the exhaust steam from the engines can be used either to heat the feed water or to heat the shops.

Water Supply.—In the court of the shop building a 4-inch Cook tubular well has been put down, which will furnish 1000 gallons of water per hour. A Cook pump delivers the water to a tank 30 feet above ground, holding 8000 gallons.

Sanitary Provisions.—The shops are thoroughly well lighted, ventilated, heated and drained. Sewer connection is made to all buildings, and the abundant water supply is used to insure cleanliness in wash room and water closet.

The courses in the department are as follows, viz :

(a.) A course in general shop work extending over three years, followed by a fourth year's work in one of the shops selected by the student. The design is to enable a young man to choose his trade intelligently and to acquire a sound basis for it.

(b.) A three years' course in general shop work followed by a fourth years' work in the management of boilers, engines and heating systems. This course is intended to train young men for the practical work of foremen or engineers.

(c.) A course in general shop work extending over three years, together with class-room work in the theory and practice of teaching, followed by a fourth years' work in handling classes in the shops and in laying out series of practical exercises.

For fuller information respecting this and other departments reference is made to the catalogue of Branch normal college.

GENERAL EXERCISES.

In addition to the regular class exercises prescribed in the course of study, there are regular lessons in vocal music, which are open to all the students. The general exercises also include a review of a Sabbath-school lesson, review of the events of the week, Calisthenics, Music and Drawing. Music upon instruments, the Organ, Piano, Flute, Guitar, etc., is extra, but very reasonable in price. There are two Literary Societies, the Junior and Senior, which hold weekly meetings and afford excellent opportunities for practice in oratory, debate, and composition. It is required that every

student shall become a member and attend the meetings of one of the societies.

The length of the vacation allows the advanced students an opportunity to engage in teaching, and a large proportion of their number have done so during the last five years. In nearly all cases they have given satisfaction and conduct their schools with a fair degree of success. The Normal students have also assisted in the work of the institution itself as a part of their training.

It will be a great advantage to the institution if the various County Judges will take a special interest in seeing that their counties are represented. The proper blanks for making appointments will be furnished, together with all necessary information, on application to the principal,

J. C. CORBIN, A. M.

Pine Bluff, Ark.

Register of Students.

The session which began March 5, '95, ended July 17, '95, the time of vacation having been changed from winter to summer. For this short session no catalogue was used. The following Register, therefore, includes the names of all students enrolled during this session, and during the full session of 1895-'96. The names of those in attendance the first session, but not the last, are distinguished by an asterisk (*).

Abbreviations :—Agrl., Agriculture; B. A., Bachelor of Arts; B. S., Bachelor of Science; C. E., Civil Engineering; E. E., Electrical Engineering; M. E., Mechanical Engineering; M. A., Master of Arts; M. S., Master of Science; S. E. E., Short Course in Electrical Engineering; Phar., Pharmacy.

GRADUATE STUDENTS.

NAME.	COURSE	POST OFFICE.	COUNTY.
Allen, Edna, E. A.....	M. A..	Farmington.	Washington.
*Bell, J. C., B. A.....	M. A..	Pontotoc.....	Mississippi.
Braly, Amanda, B. S..	M. S..	Fayetteville.	Washington.
Braly, Etta, B. S.....	M. S..	Fayetteville.	Washington.
Davies, Lila, B. A....	M. A..	Fayetteville	Washington.
*Dyer, Malvina, B. A..	M. A..	Prairie Grove	Washington.
Earl, Clara, B. A.....	M. A..	Fayetteville.	Washington.
Eld, C. J., B. C. E ...	C. E...	Bentonville .	Benton.
Hedrick, Ira G., B C.E.	C. E...	Kansas City.	Missouri.
Holcombe, Cener, B. A. M. A..	M. A..	Fayetteville.	Washington.
Lipsey, D. B., B. S....	M. S...	Lonoke	Lonoke.
Remy, Mollie, B. A....	M. A..	Mulberry....	Franklin.
Simonds, Alice, B. S..	M. S...	Fayetteville.	Washington.
Williams, Jennie, B. A. M. A..	M. A..	Fayetteville.	Washington.

NOTE—The names of students in the Medical and Law Departments at Little Rock and of the Branch Normal College at Pine Bluff are not included in this register, but are published in the special catalogues of these Departments.

SENIORS.

NAME.	COURSE	POST OFFICE.	COUNTY.
Allen, Edna.....	B. A...	Farmington.	Washington.
Barnett, C. P.....	E. E...	Fayetteville.	Washington.
Barr, Ida.....	B. S...	Fayetteville.	Washington.
Beattie, Mary.....	B. A...	Little Rock..	Pulaski.
Boyd, W. E.....	B. A...	Cooper	Texas.
Braly, Amanda.....	B. S...	Fayetteville.	Washington.
Braly, Etta	B. S...	Fayetteville.	Washington.
Brixey, A. M.....	B. A...	Rogers	Benton.
Davies, Clyde.....	B. A...	Fayetteville.	Washington.
Davies, Lila.....	B. A...	Fayetteville.	Washington.
Drees, C. J.....	E. E...	Little Rock..	Pulaski.
Earl, Clara.....	B. A...	Fayetteville.	Washington.
Eld, C. J.....	C. E...	Bentonville..	Benton.
Lipsev. D. B.....	B. S...	Lonoke.....	Lonoke.
Martineau, J. E.....	B. A...	Lonoke.....	Lonoke.
*Morley, S. L.....	B. S...	Fort Smith..	Sebastian.
Myar, A. J.....	C. E...	Little Rock..	Pulaski.
Redus, J. L.....	B. A...	Lead Hill...	Boone.
Remy, Mollie.....	B. A...	Mulberry....	Franklin.
*Russell, Chester.....	B. A...	Russellville..	Pope.
Simonds, Alice.....	B. S...	Fayetteville.	Washington.
Vaughan, George.....	B. A...	Locksburg ..	Sevier.
Vaulx, Kate.....	B. A...	Fayetteville.	Washington.
Williams, Jennie.....	B. A...	Fayetteville.	Washington.
Wood, Norma.....	B. A...	Van Buren..	Crawford.

JUNIORS.

Askew, W. H.....	B. A...	Magnolia ...	Columbia.
Batten, T. H.....	B. S...	Eureka Spgs.	Carroll.
Braly, E. K.....	M. E...	Fayetteville.	Washington.
Campbell, J. L.....	B. A...	Greenwood..	Sebastian.
Crozier, A. B.....	E. E...	Fayetteville.	Washington.
Davis, J. H.....	E. E...	Forest City..	St. Francis.
*Duncan, C.....	B. S...	Fayetteville.	Washington.
*Earle, F. P.....	B. S...	Boonsboro ..	Washington.
*Godfrey, J. H.....	B. A...	Pine Bluff..	Jefferson.
Hardin, Nina.....	B. A...	Fayetteville.	Washington.
Howell, Willey.....	B. S...	Fayetteville.	Washington.
*Hust, J. H.....	B. A...	Bentonville.	Benton.
Leverett, Rose.....	B. A...	Fayetteville.	Washington.
McNeill, Dane.....	M. E...	Fayetteville.	Washington.
Medearis, R. S.....	B. A...	Cincinnati ..	Washington.
Miller, Daisy.....	B. A...	Fort Smith..	Sebastian.
*Mobberly, E. E.....	E. E...	Longview. ..	Texas.
Moore, J. L.....	M. E...	Cincinnati ..	Washington.
Morrow, D. C.....	E. E...	Fayetteville.	Washington.

JUNIORS (continued).

NAME.	COURSE	POST OFFICE.	COUNTY.
*Nix, Maude.....	B. S....	Fayetteville.	Washington.
Patterson, Kate.	B. A...	Fayetteville.	Washington.
Patterson, Daisy.....	B. A...	Fayetteville.	Washington.
Pruett, W. E.....	C. E...	Denning.....	Franklin.
Rodman, E. L.....	B. A...	Altus.....	Franklin.
Skelton, J. E.....	B. S...	Fayetteville.	Washington.
Spencer, E. L.....	B. A ..	Fayetteville.	Washington.
Turner, N. G.....	B. A...	Cypert	Phillips.

SOPHOMORES.

Askew, G. H	B. A...	Magnolia....	Columbia.
Ayres, W. E.....	C. E ..	Osceola.....	Mississippi.
Bell, M. L.....	B. A..	Pine Bluff...	Jefferson.
Bevers, A. W.	B. A..	Hindsville...	Madison.
*Boles, Ina M.....	Nor ...	Ft. Smith. .	Sebastian.
Chamness, W. T.....	B. A..	Center Ridge	Conway.
*Chew, W. D.....	B. A..	El Dorado...	Union.
Cummings, R. N.....	B. A..	Huntsville ..	Madison.
Duncan, Eleanor.....	B. A..	Fayetteville.	Washington.
Eld, Amanda.....	B. A..	Bentonville ..	Benton.
Fishback, W. M.....	S. E. E.	Ft. Smith...	Sebastian.
*Ferguson, Augusta...	B. A..	Fayetteville.	Washington.
*Ferguson, J. D.....	B. A..	Texarkana ..	Texas.
Frierson, C. D.....	B. A..	Jonesboro ...	Craighead.
Gates, H. W.....	B. S...	Fayetteville.	Washington.
Graham, R. N.	B. A..	Fayetteville.	Washington.
*Guilliams, J. M.....	B. S...	Farmington ..	Washington.
Gunter, Gertrude.....	B. S...	Fayetteville.	Washington.
Hardin, Lena.....	B. A...	Fayetteville.	Washington.
*Hill, S. B.....	B. A...	Franklin	Izard.
Hinkle, C. G.....	B. A..	Batesville ...	Independenc
Holcombe, Jo Belle...	B. A..	Fayetteville.	Washington.
*Hopkins, J. F.....	B. A..	Brightwater.	Benton.
Howard, J. R.....	E. E...	Malvern	Hot Springs.
Howell, Carrie.....	B. A..	Fayetteville.	Washington.
Hunt, Nellie	B. S...	Fayetteville.	Washington.
*Johnson, D. F.....	B. A..	Cauthron ..	Scott.
Jones, R. C.....	B. A..	Three Creeks	Union.
Jones, R. A.....	B. S...	Three Creeks	Union.
McDaniel, A. J.....	C. E...	McDaniel . .	St. Francis.
Martin, T. B.....	S. E. E.	Little Rock.	Pulaski.
*Matlock, J. D.....	Nor ...	Statler	Crawford.
Mitchell, Mary.....	B. A..	Texarkana ..	Miller.
Mitchell, James.....	B. A..	Little Rock..	Pulaski.
Nicholls, George.....	B. A..	Helena	Phillips.
*Pace, Ada.....	B. A..	Harrison. ...	Boone.

SOPHOMORES (continued).

NAME.	COURSE	POST OFFICE.	COUNTY.
Patterson, H. A.....	B. A..	Fayetteville.	Washington.
Philbeck, R. E.....	B. A..	Fayetteville.	Washington.
Price, C. G.....	B. A..	Sharp	Woodruff.
*Porter, Mabel.....	B. A..	Fayetteville.	Washington.
*Rightor, H. H.....	B. A..	Helena.....	Phillips.
Ross, W. A.....	E. E...	Boonsboro ..	Washington.
*Rudolph, W. J.....	C. E...	Fayetteville.	Washington.
Shaha, Richard.....	B. A..	Fayetteville.	Washington.
Spencer, Mamie.....	B. A..	Fayetteville.	Washington.
Steward, I. F.....	B. A..	Springdale..	Washington.
*Summers, J. F.....	B. A..	Forest City..	St. Francis.
Taylor, S. J.....	E. E...	LeGrange ...	Lee.
Thomason, Annie.....	B. A..	Fayetteville.	Washington.
Washington, Ruby....	B. S...	Fayetteville.	Washington.
Wassel, F. J.....	B. A...	Little Rock..	Pulaski.
Wiley, Winona.....	B. A..	Fayetteville.	Washington.
Williams, Hattie.....	B. A...	Fayetteville.	Washington.
Wood, W. H.....	E. E...	Fayetteville.	Washington.
Young, F. B.....	B. S...	Springdale..	Washington.

FRESHMEN.

Alzheimer, B. L.....	B. A..	Pine Pluff...	Jefferson.
*Andrews, A. D.....	B. A..	Heber	Cleburne.
Angel, Francis.....	B. A..	Bruno.....	Marion.
Baker, E. M.....	M. E..	Fayetteville.	Washington.
Baker, Margaret.....	B. S...	Witcherville	Sebastian.
Baldwin, Ada.....	B. A..	Mansfield....	Sebastian.
Beldin, E. T... ..	B. A..	Hot Springs.	Garland.
Beavers, W. W.....	B. A..	Waldron.....	Scott.
Beldin, Lula.....	B. A..	Hot Springs.	Garland.
Bell, Hettie.....	Nor ...	Fayetteville.	Washington.
Bentz, J. L.....	E. E...	Hot Springs.	Garland.
Bibb, Lilian.....	B. A..	Fayetteville.	Washington.
*Boyce, Minnie.....	Nor ...	Dardanelle..	Yell.
Blair, J. H.....	C. E...	Decatur	Benton.
Buchanan, Florence...	Nor....	Boonsboro...	Washington.
Buchanan, Maude....	Nor ...	Boonsboro...	Washington.
Buffington, W. R....	B. A..	College Hill.	Columbia.
Buttram, T. F.....	B. S...	Brightwater.	Benton.
*Chaney, R. B.....	Nor....	Carlisle.....	Lonoke.
Crawford, Mary.....	Nor ...	Fayetteville.	Washington.
*Clayton, Powell.....	C. E...	Eureka Spgs	Carroll.
Coffey, C. D.....	B. S...	Fayetteville.	Washington.
Cory, A. B.....	E. E...	Fayetteville.	Washington.
*Cowgill, W. B.....	B. A..	Fayetteville.	Washington.
Cunningham, F. P....	B. A..	Morrilton ...	Conway.

FRESHMEN (continued).

NAME.	COURSE	POST OFFICE.	COUNTY.
Davis, Maude.....	B. A..	Fayetteville.	Washington.
Dean, Lula.....	Nor....	Center Ridge	Conway.
Dengler, F. L.....	C. E...	Hot Springs.	Garland.
*Dickson, M. S.....	Phar..	Fayetteville.	Washington.
Easterly, Maude.....	Nor...	Fayetteville.	Washington.
*Ellington, Leona.....	B. A..	Magazine...	Logan.
Ellis, Miggie.....	Nor...	Fayetteville.	Washington.
*Evans, W. E.....	Phar..	Fayetteville.	Washington.
Evins, Sallie.....	Nor....	Fayetteville.	Washington.
Fillmore, C. R.....	E. E...	Pine Bluff...	Jefferson.
Finkelstein, L., M. D..	E. E...	Fayetteville.	Washington.
Fishback, H. Y.....	S. E. E.	Fort Smith..	Sebastian.
Fitzpatrick, L. A.....	B. A..	Helena.....	Phillips.
*Frost, B. A.....	E. E...	Fayetteville.	Washington.
Gallaway, Charlotte...	B. A..	Fayetteville.	Washington.
Gates, Oscar.....	S. E. E.	Fayetteville.	Washington.
*Gatewood, W. G.....	Phar..	Lonoke.....	Lonoke.
*Goodrum, A. K.....	Phar..	Lonoke.....	Lonoke.
Gramling, E. G.....	Nor....	Paragould...	Greene.
Gunter, Minnie.....	B. A..	Fayetteville.	Washington.
*Haynes, T. L.....	B. A..	Cleaveland..	Conway.
Henderson, C. H.....	B. A..	Pocahontas	Randolph.
High, E. M.....	Nor....	Lonoke.....	Lonoke.
Hoag, Mary.....	Nor....	Judsonia	White.
Holmes, D. P.....	B. A..	Nathan.....	Pike.
Hudson, Walter.....	E. E...	Pine Bluff..	Jefferson.
Huie, R. H.....	B. A..	Arkadelphia	Clark.
*Johnson, G. B.....	B. A..	Gipson.....	Scott.
Johnson, W. P.....	B. S...	Jonesboro ...	Craighead.
*Jones, Fred.....	C. E...	Fayetteville.	Washington.
Kantz, Mary.....	B. A..	Fayetteville.	Washington.
Kantz, Mattie.....	B. A..	Fayetteville.	Washington.
Keel, J. H.....	B. A..	Newport	Jackson.
Kirby, L.....	E. E...	Harrison	Boone.
Knight, Oscar.....	B. S...	Jonesboro ...	Craighead.
Kirby, F. B.....	B. A..	Harrison ...	Boone.
Lackey, Annie.....	B. A..	Fayetteville.	Washington.
Lackey, Dott.....	B. A..	Fayetteville.	Washington.
Lawshe, Ida.....	Nor....	Fayetteville.	Washington.
Leatherman, G. P.....	B. A..	Hot Springs.	Garland.
LeFlore, Willis	B. A..	Jackson	Indian Ter.
*Lindsey, Wright.....	S. E. E.	Little Rock..	Pulaski.
*McKinney, J. A.....	B. A..	Ozark	Franklin.
*McNew, G. J.....	Phar..	Panola	Lonoke.
*McPhetride, Eugene..	B. A..	Dallas.....	Polk.
*Martineau, A. C.....	Phar..	Lonoke.....	Lonoke.
Malone, J. E.....	Nor....	Hackett City	Sebastian.
May, Mamie.....	B. A..	Fayetteville.	Washington.
Mayes, Cora.....	B. A..	Fayetteville.	Washington.
Mayes, Pauline.....	B. A..	Fayetteville.	Washington.

FRESHMEN (continued).

NAME.	COURSE	POST OFFICE.	COUNTY.
Melton, H. A.....	S. E. E.	Fayetteville.	Washington.
Moore, H. D.....	B. A..	Helena.....	Phillips.
*Morrow, Cordia.....	B. A..	Fayetteville.	Washington.
Morrow, Lula.....	Nor...	Fayetteville.	Washington.
Newman, T. J.....	Phar ..	Lonoke	Lonoke.
Nichol, Currin.....	B. S...	Pine Bluff...	Jefferson.
Norman, P. A.....	B. A..	Seba.....	Benton.
*Pace, Kate.....	Nor ..	Harrison	Boone.
Parker, J. H.....	B. A...	Camden.....	Ouachita.
Pettigrew, Nell.....	B. S...	Fayetteville.	Washington.
*Pierce, J. A.....	Nor....	Yellville	Marion.
*Pile, T. T.....	Phar ..	Van Buren..	Crawford.
Pittman, Nannie.....	Nor ..	Prairie Gr'Ve	Washington.
*Pittman, James.....	Phar ..	Prairie Gr'Ve	Washington.
Pugh, Anna.....	Nor ..	Fayetteville.	Washington.
Pugh, Celeste.....	Nor ..	Fayetteville.	Washington.
Purdy, Lizzie.....	B. S...	Fayetteville.	Washington.
Putman, L. R.	S. E. E.	Fayetteville.	Washington.
Randolph, John.....	B. A..	Fayetteville.	Washington.
Reynolds, Lenora.....	B. A...	Fort Smith..	Sebastian.
*Richardson, D. A.....	B. A..	Charleston...	Franklin.
Ross, Lucy.....	B. A..	Boonsboro...	Washington.
Rosser, Florence.....	B. A..	Fayetteville.	Washington.
Sanders, C. F.....	B. A..	Hot Springs.	Garland.
Sanderson, S. A.....	Nor ..	Fayetteville.	Washington.
Sappington, Kate	Nor ..	Clarksburg ..	Missouri.
Seawel, A. C.....	B. A..	Yellville.....	Marion.
Seawel, W. L.....	S. E. E.	Yellville.....	Marion.
*Simpson, J. M.....	B. A..	Eldorado....	Union.
Smith, Christina.....	B. A..	Cincinnati...	Washington.
Snapp, J. H.....	C. E...	Snapp.....	Woodruff.
Spencer, A. R.....	E. E..	Fayetteville.	Washington.
Stanford, J. F.....	B. S...	Fayetteville.	Washington.
Taylor, Rose.....	B. S...	Fayetteville.	Washington.
*Taff, S. M.....	Phar ..	Fayetteville.	Washington.
Thomason, Demmie....	B. A..	Fayetteville.	Washington.
Thurman, Sarah.....	B. A..	Fayetteville.	Washington.
Towler, G. F.....	C. E...	Fordyce	Dallas.
*Treadwell, M. F.....	B. A..	Pine Bluff...	Jefferson.
Trimble, T. C.....	B. A..	Lonoke.....	Lonoke.
Turner, B. E.....	B. S...	Cypert	Phillips.
Vedder, E. S.....	M. E..	Fayetteville.	Washington.
Warner, S. A.....	B. A..	Jonesboro ...	Craighead.
Watkins, Stella.....	B. A..	Fayetteville.	Washington.
*Watkins, J. A.....	Nor ..	Maxville	Sharp.
Wood, G. B.....	B. A..	Hot Springs.	Garland.
Wright, Will....	B. A..	Sulph'r R'ck	Indep'd'nce.
Wright, A. B.....	B. S...	Fayetteville.	Washington.

SPECIAL.

NAME.	POST OFFICE.	COUNTY.
Adams, C. D	Fort Smith	Sebastian.
Adams, G. H.....	Pine Bluff.....	Jefferson.
*Allen, Bruce.....	Fayetteville.....	Washington.
Bean, J. L.....	Boonsboro	Washington.
Blackwell, O. G.....	Pine Bluff.....	Jefferson.
Brown, H. R.....	Little Rock	Pulaski.
Collier, Thenia.....	Carrollton.....	Carroll.
*Campbell, Loren.....	Prairie Grove.....	Washington.
Davies, Rowena	Fayetteville.....	Washington.
Croxdale, J. H.....	Bentonville.....	Benton.
Elder, H. A.....	Jonesboro	Craighead.
*Gray, Ethel.....	Little Rock.. ..	Pulaski.
Griffin, Kate.....	Fayetteville.....	Washington.
Groves, F. M.....	Waldo	Columbia.
Ostrander, Effie.....	Fayetteville.....	Washington.
*Romines, J. P.....	Ashdown	Little River.
*Robinson, E. R.....	Lonoke.....	Lonoke.
Pittman, R. T., B.S.....	Fayetteville.....	Washington.
Parker, W. G.....	Hot Springs.. ..	Garland.
*Stanford, Nellie.....	Fayetteville.....	Washington.
Thomas, Alice.....	Fayetteville.....	Washington.
*Vandeventer, J. C. C.; B. S.....	Fayetteville.....	Washington.
*Wright, Luther.....	Sulphur Rock.....	Independ'ce.
*Whitehead, J. E.....	Rogers	Benton.

IRREGULAR.

Adams, Mattie.....	Prairie Grove.....	Washington.
Lewis, Lena.....	Fayetteville.....	Washington.
Luther, Lula.....	Fayetteville.....	Washington.
*Taylor, Mattie.....	Fayetteville.....	Washington.
*Vincenheller, Jeane	Fayetteville.....	Washington.

SUMMARY FOR SHORT SESSION OF 1895 AND FOR 1895-'96.

BY CLASSES.

Graduates.....	14
Seniors.....	25
Juniors.....	27
Sophomores.....	55
Freshmen.....	123
Special.....	25
<hr/>	
Total.....	269
Counted twice.....	10
<hr/>	
	259

BY COURSES.

Master of Arts.....	8
Master of Science.....	4
Civil Engineering.....	2
Bachelor of Arts.....	120
Bachelor of Science.....	31
Bachelor of Civil Engineering.....	13
Bachelor of Electrical Engineering.....	17
Bachelor of Mechanical Engineering.....	5
Normal.....	26
Pharmacy.....	10
Short course in Electrical Engineering.....	8
Special.....	25
<hr/>	
Total.....	269
Counted twice....	10
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	259

SUMMARY FOR SESSION OF 1895-'96.

BY CLASSES.

Graduates.....	12
Seniors.....	23
Juniors.....	21
Sophomores.....	40
Freshmen.....	95
Special.....	12
<hr/>	
Total.....	203
Counted twice.....	10
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	193

BY COURSES.

Master of Arts	6
Master of Science	4
Civil Engineering	2
Bachelor of Arts	97
Bachelor of Science	26
Bachelor of Civil Engineering	10
Bachelor of Electrical Engineering	15
Bachelor of Mechanical Engineering	5
Normal	19
Short Course in Electrical Engineering	7
Special	12
<hr/>	
Total	203
Counted twice	10
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	193

Preparatory Students.

*Abbreviations:—A., Agricultural; G., General;
E., Engineering.*

SECOND YEAR.

NAME.	COURSE.	POST OFFICE.	COUNTY.
Algire, Russel.....	E..	Fayetteville.	Washington.
*Armstrong, W. B.....	G..	El Dorado	Union.
Ash, Gertrude.....	G..	Fayetteville.	Washington.
*Atkinson, T. P.....	E..	Fordyce.....	Dallas.
Barry, Kate.....	G..	Fayetteville.	Washington.
Bates, Madge.....	G..	Fayetteville.	Washington.
Baum, Joseph.....	G..	Fayetteville.	Washington.
Beakley, J. D.....	G..	Pocahontas ..	Randolph.
Beaty, Z. T.	G..	Audubon....	Texas.
*Bell, Joseph.....	E..	Fayetteville.	Washington.
Boatwright, Volney.....	G..	Van Buren..	Crawford.
Brown, E. T.....	E..	Sweet Home.	Pulaski.
Brown, J. A.....	E..	Sweet Home.	Pulaski.
*Buchanan, Grace	G..	Fayetteville.	Washington.
Burgess, Edith.....	G..	Fayetteville.	Washington.
Burgess, Irene.....	G..	Fayetteville.	Washington.
Burton, J. B.....	G..	Hope.....	Hempstead.
Bush, W. L.....	E..	Caney.....	Kansas.
Buttram, J. H.....	G..	Brightwater	Benton.
Buttram, Mary	G..	Brightwater	Benton.
Byrnes, Nellie.....	G..	Fayetteville.	Washington.
Byrum, J. M.....	G..	Sulp'r Rock.	Independ'e.
Campbell, Effie.....	G..	Fayetteville.	Washington.
*Carruth, G. B.....	G..	Beverly.	Sebastian.
Carter, T. A.....	E..	Ozark.....	Franklin.
*Cato, E. W.....	G..	Fayetteville.	Washington.
Chapman, Alberta.....	G..	Fayetteville.	Washington.
Clancy, Nellie.....	G..	Fayetteville.	Washington.
*Clark, F. L.....	G..	West Fork..	Washington.
Clay, Gertrude.....	G..	Fayetteville.	Washington.
Cole, Lillie	G..	Dardanelle..	Pope.
Cole, Lizzie	G..	Dardanelle..	Pope.
Cole, C. E.....	E..	Dardanelle..	Pope.
Collier, J. T.....	G..	Washburn ..	Sebastian.
Conner, Agnes.....	G..	Fayetteville.	Washington.
Cory, H. J.....	E..	Fayetteville.	Washington.
Cravens, H. W	G..	Hartman....	Johnson.
Crozier, Mary.....	G..	Boonsboro...	Washington.
Crozier, W. H.....	E..	Boonsboro...	Washington.
Crozier, Lizzie.....	G..	Boonsboro..	Washington.
Cummings, Douglas	G..	Prairie Grove	Washington.

NAME.	COURSE.	POST OFFICE.	COUNTY.
Curry, Merle	G..	Fayetteville.	Washington.
Curry, E. R.....	E..	Fayetteville.	Washington.
*Daniel, W. A	G..	Waldo	Columbia.
*Dark, R. H	G..	Hardy	Sharp.
Darragh, F. J.....	E..	Little Rock..	Pulaski.
Davenport, Fannie.....	G..	Pierce City..	Missouri.
Deans, W. A	G..	Garfield.....	Benton.
Dean, Arthur	G..	Frostville ..	Lafayette.
Deaver, Bertha.....	G..	Springdale..	Washington.
*Douglas, S. W.....	G..	Belfast.....	Grant.
Driver, E. E.....	E..	Osceola	Mississippi.
Droke, G. P.....	G..	Fayetteville.	Washington.
Duren, A. B. C.....	A..	Yellville.....	Marion.
Eason, Evie	G..	Fayetteville.	Washington.
Edwards, T. A.....	G..	Holla Bend..	Pope.
Ellis, Gertrude.....	G..	Fayetteville.	Washington.
*Evins, W. M.....	E..	Fayetteville.	Washington.
Felkner, J. E.....	G..	Rogers	Benton.
Forester, Minnie.....	G..	Waldron	Scott.
Floyd, J. A.....	G..	Malvern	Hot Springs.
Foushee, W. S.....	E..	Newport	Jackson.
Friend, H. B.....	G..	Marianna ...	Lee.
Gaskill, Lettie.....	G..	Fayetteville.	Washington.
Gee, Estelle.....	G..	Fayetteville.	Washington.
George, W. E.....	G..	Berryville...	Carroll.
Goodwin, Walter.....	G..	Eldorado....	Union.
Hamiter, Emmet	G..	Walnut Hill.	Lafayette.
Hardin, Kate.....	G..	Fayetteville.	Washington.
Harkey, T. S.....	G..	Tara!	Pope.
Hedrick, Della.....	G..	Fayetteville.	Washington.
Henderson, E. R.....	G..	Pocahontas ..	Randolph.
Henderson, S. L.....	G..	Fayetteville.	Washington.
*Hightower, G. T.....	E..	Fort Smith..	Sebastian.
Hill, Lola	G..	Fayetteville.	Washington.
Hinman, Ernest.....	G..	Fayetteville.	Washington.
Holt, Charles ...	E..	Bellfonte....	Boone.
Hornor, J. L.....	G..	Helena	Philips.
*Horsley, H. B.....	G..	Rogers	Benton.
Horsley, W. B.....	E..	Rogers	Benton.
Horsfall, Frank.....	A..	Hazen	Prairie.
Howell, Edward	G..	Fayetteville.	Washington.
Hudson, Leon.....	G..	Sub Rosa....	Franklin.
Hyde, J. L.....	A..	Tillar.....	Drew.
*Jacobs, L. P.....	G..	Harmony....	Johnson.
*Johnson, J. H.....	G..	Atkins	Pope.
*Johns, W. H.....	A..	Uniontown..	Crawford.
Jones, Doswell.....	E..	Fayetteville.	Washington.
*Justice, Mattie.....	G..	Ponca Age'y.	Oklahoma.
Kell, Bessie.....	G..	Fayetteville.	Washington.
King, Ruby Gray....	G..	Harrison	Boone.
Kimbrough, Nestor.....	G..	Van Buren..	Crawford.
Kitchens, W. H.....	G..	Waldo	Columbia.

NAME.	COURSE.	POST OFFICE.	COUNTY.
Leckie, Archie.....	G..	Fayetteville.	Washington.
*Lee, Ilus.....	G..	Cassville	<i>Missouri.</i>
*Lipsey, Alva.....	G..	Lonoke.....	Lonoke.
Long, Margurite.....	G..	Fayetteville.	Washington.
*Looney, W. W.....	G..	Fayetteville.	Washington.
*Looney, G. W.....	G..	Fayetteville.	Washington.
Malone, Otto.....	G..	Waldron	Scott.
Marcheselli, C.....	G..	Fayetteville.	Washington.
Martin, E. G.....	G..	Little Rock..	Pulaski.
Mathews, G. U.....	G..	Eureka	Carroll.
Matlock, T. T.....	A..	Tulip	Dallas.
Maxwell, W. E.....	E..	Monticello....	Drew.
Meritt, Meah.....	G..	Fayetteville.	Washington.
Meritt, May.....	G..	Fayetteville.	Washington.
McClanahan, Carrie....	G..	Fayetteville.	Washington.
*McCray, E. H.....	G..	Malvern	Hot Springs.
*McLroy, Kate.....	G..	Fayetteville.	Washington.
*McKinney, H. C.....	G..	Hillsboro....	Union.
McMillan, O. L	G..	Fayetteville.	Washington.
*McPherson, W. T.....	G..	Pottsville....	<i>Texas.</i>
McReynold, J. C.....	G..	Siloam Sp's..	Benton.
*Moore, Amanda.....	G..	Fayetteville.	Washington.
*Moore, John A.....	A..	Three Creeks	Union.
*Moore, F. N.....	E..	Fayetteville.	Washington.
Miller, Othniel	G..	Van Buren ..	Crawford.
*Morgan, E. H.....	G..	St. Louis....	<i>Missouri.</i>
Morrow, Agnes.....	G..	Fayetteville.	Washington.
Morrow, Annie.....	G..	Greenwood ..	Sebastian.
*Morrow, Terry.....	G..	Hubbard....	Washington.
Mount, A. L.....	A..	Fayetteville.	Washington.
Munn, M. J.....	E..	Bodcaw... ..	Nevada.
Nix, R. E.....	E..	Fayetteville.	Washington.
Oden, J. W.....	G..	Clifton	Lee.
Oliver, Kate.....	G..	Fayetteville.	Washington.
Oliver, Bessie.....	G..	Fayetteville.	Washington.
*Owens, O. J.....	G..	Enders.	Franklin.
Parks, Bessie.....	G..	Boonsboro ..	Washington.
Peninger, Effie.....	G..	Auburn.....	Sebastian.
Pettigrew, Lillian.....	G..	Fayetteville.	Washington.
Pettigrew, G. G.....	G..	Fayetteville.	Washington.
*Pettigrew, G. A.....	G..	Charleston ..	Sebastian.
Phillips, Mamie.....	G..	Springdale..	Washington.
Pollard, J. W....	G..	Gaither.....	Boone.
Pond, George.....	G..	Fayetteville.	Washington.
*Pool, Mamie.....	G..	Newport	Jackson.
*Powell, William.....	G..	Fayetteville.	Washington.
Price, C. C.....	E..	Stuttgart	Arkansas.
Ramsaur, L. S.....	G..	Augusta.....	Woodruff.
Rattenbury, William....	G..	Fayetteville.	Washington.
Robinson, Mary.....	G..	Fayetteville.	Washington.
Rogers, T. H.....	G..	Dublin	Logan.
*Roller, George.....	G..	Washburn ..	<i>Missouri.</i>

NAME.	COURSE.	POST OFFICE.	COUNTY.
Ross, H. L.....	G..	Boonsboro...	Washington.
Rutherford, R. P.....	E..	Fort Smith..	Sebastian.
*Sample, S. G.....	E..	Mansfield...	Louisiana.
Shannon, Dora.....	G..	Fayetteville.	Washington.
Shorten, W. J.....	G..	Marianna...	Lee.
*Skelton, Fred.....	E..	Fayetteville.	Washington.
Steele, R. E.....	E..	Ozark	Franklin.
Stone, May.....	G..	Fayetteville.	Washington.
Strain, R. G.....	G..	Helena.....	Phillips.
Swan, J. S.....	A..	Bodcaw.....	Nevada.
Talkington, C. R.....	G..	Tara.....	Pope.
Taylor, D. W.....	G..	Pine Bluff..	Jefferson.
Thompson, A. S.....	G..	Fayetteville.	Washington.
*Thomas, B.....	G..	Dardanelle..	Pope.
Tilley, Mary.....	G..	Fayetteville.	Washington.
Tilley, Clara	G..	Fayetteville.	Washington.
Tolle, F. A.....	G..	Fayetteville.	Washington.
Tolle, Delia	G..	Fayetteville.	Washington.
*Tunis, E. J.....	G..	Carlisle.....	Lonoke.
Vandeventer, Geraldine.	G..	Fayetteville.	Washington.
Vincenheller, G. Ashton.	G..	Fayetteville.	Washington.
Wade, J. S.....	E..	Fayetteville.	Washington.
Wade, L. A.....	G..	Fayetteville.	Washington.
Walker, J. F.....	E..	Beebe	White.
Walker, H. O.....	G..	Newport	Jackson.
Walters, A. J.....	G..	Bellfonte....	Boone.
Ward, Rankin.....	G..	Marion.....	Crittenden.
Watson, Cathrine.....	G..	Bentonville .	Benton.
Weast, Lucien.....	G..	Yellville	Marion.
Weast, Virgil.....	E..	Yellville	Marion.
Welch, Albert.....	G..	Yellville	Marion.
Whitley, Clarence.....	G..	Cabot.....	Lonoke.
Wiley, Pearl.....	G..	Fayetteville.	Washington.
Wilkinson, Norman.....	G..	Charleston ..	Franklin.
Williams, Georgia.....	G..	Fayetteville.	Washington.
Williams, Ione.....	G..	Fayetteville.	Washington.
*Williams, Sidney.....	E..	Fayetteville.	Washington.
*Williams, O. H.....	E..	Fayetteville.	Washington.
Wood, Cora.....	G..	Fayetteville.	Washington.
*Wooten, J. P.....	G..	Dardanelle..	Pope.
Wright, Lawrence.....	E..	Catcher	Crawford.
Young, Daisy.....	G..	Springdale..	Washington.

FIRST YEAR.

Ahrens, Clara.....	G..	Fayetteville.	Washington.
*Allis, H. B.....	E..	Little Rock..	Pulaski.
Anderson, Jas. H.....	E..	Fayetteville.	Washington.
Andrews, John M.....	E..	Fayetteville.	Washington.
Archer, J. A.....	G..	Malvern	Hot Springs.
*Archer, Charles A.....	G..	Malvern	Hot Springs.

NAME.	COURSE.	POST OFFICE.	COUNTY.
Babb, Effie.....	G..	Fayetteville.	Washington.
Babb, Wroten.....	G..	Fayetteville.	Washington.
Bagby, G. H.....	E..	Lake Village	Chicot.
Baker, Sadie.....	G..	Fayetteville.	Washington.
Baldwin, Henry.....	E..	Mansfield...	Sebastian.
Basset, Cora.....	G..	Fayetteville.	Washington.
*Bates, Joseph.....	A..	Fayetteville.	Washington.
Beames, Isham.....	G..	Bennington .	<i>Indian Ter.</i>
*Bell, J. A.....	A..	Haynes	Lee.
Bell, Lillie.....	G..	Fayetteville.	Washington.
Berry, Elliott.....	E..	Bentonville..	Benton.
Berry, L. P.....	E..	Marion.....	Crittenden.
Berry, Mary.....	G..	Marion.....	Crittenden.
Blackmer, Lillie.....	G..	Fayetteville.	Washington.
*Blackwell, Eva.....	G..	Perryville...	Perry.
*Black, Clyde.....	G..	Mars Hill...	Lafayette.
*Blake, Laura.....	G..	Dutch Mills.	Washington.
Blaylock, J. C....	E..	Fayetteville.	Washington.
Brasch, Charles.....	G..	Newport	Jackson.
*Breathwit, Hugh	G..	Kingland ...	Cleveland.
Brookover, J. C.....	E..	Fayetteville.	Washington.
Brown, Mary.....	G..	Fayetteville.	Washington.
*Brown, J. W.....	G..	Stattler	Crawford.
Brooks, Effie.....	G..	Fayetteville.	Washington.
Buchanan, Mary.....	G..	Boonsboro...	Washington.
Buchanan, Herbert.....	G..	Boonsboro ..	Washington.
Buchanan, Frank.....	G..	Fayetteville.	Washington.
Butts, Ray.....	A..	Dublin	Logan.
*Byars, C. S.....	E..	Alma	Crawford.
Byrnes, Bessie.....	G..	Fayetteville.	Washington.
Caldwell, J. A.....	G..	Lowell	Benton.
Campbell, Judson.....	G..	Fayetteville	Washington.
*Campbell, Lizzie.....	G..	Moffit	Washington.
Carter, Elmo.....	E..	Riverside ...	Woodruff.
Casteel, Gordon.....	G..	Forest City...	St. Francis..
Chamness, B. C.....	G..	Centre Ridge	Conway.
Chapman, Melva.....	G..	Fayetteville.	Washington.
Chapman, W. H.....	E..	Fayetteville.	Washington.
Clayton, John M.....	G..	Eureka	Carroll.
Clancy, Willie.....	E..	Fayetteville.	Washington.
Clark, J. H.....	G..	Goshen.....	Washington.
Cleaver, E. A.....	E..	Russellville..	Pope.
Cole, Mary.....	G..	Boonsboro ..	Washington.
Cole, Carl.....	E..	Boonsboro...	Washington.
Cole, Mattie.....	G..	Boonsboro ..	Washington.
*Conner, Ethel.....	G..	Fayetteville.	Washington.
*Conner, Birdie.....	G..	Fayetteville.	Washington.
*Coolidge, Ellis.....	G..	Helena.....	Phillips.
Cooper, Willis ..	G..	San Bois....	<i>Indian Ter.</i>
Cooper, Sallie.....	G..	Fayetteville.	Washington.
Cowdrey, E. E.....	E..	Yellville....	Marion.
Cox, Gilbert...	E..	Fayetteville.	Washington.

NAME.	COURSE.	POST OFFICE.	COUNTY.
Crandall, Lizzie.....	G..	Clyde	Washington.
Crawford, J. D.....	G..	Sulphur City	Washington.
Crenshaw, J. T.....	E..	Fayetteville.	Washington.
Crowley, L. G.....	A..	Paragould ..	Green.
Curry, Clarence.....	E..	Fayetteville.	Washington.
*Daly, M. G.....	G..	Bodcaw	Nevada.
Darr, R. W.....	G..	Atkins.	Pope.
Davies, Edith.....	G..	Fayetteville.	Washington.
Davis, Claude.....	E..	Fayetteville.	Washington.
Davis, J. M.....	E..	Chocoloco ...	Alabama.
Dawson, W. F.....	G..	Greenwood ..	Sebastian.
Dean, David.....	A..	Alston.	Franklin.
*Deisch, F. J.....	E..	Barton.....	Philips.
Dorsey, C. C.....	E..	Fayetteville.	Washington.
Dowell, Ernest.....	E..	Fayetteville.	Washington.
Dowell, Pearl.....	G..	Fayetteville.	Washington.
*Downs, R. V.....	E..	Pine Bluff..	Jefferson.
Duncan, Annie.....	G..	Fayetteville.	Washington.
Duncan, H. B.....	G..	Spanish C'p.	Texas.
Dunn, J. L.....	E..	Fayetteville.	Washington.
Dunn, W. F.....	E..	Fayetteville.	Washington.
Dumas, C. R.....	G..	Lisbon	Union.
Durham, W. H.....	E..	Hot Springs.	Garland.
Durden, J. J.....	G..	Greenwood..	Sebastian.
Dyer, S. J.....	E..	Dyer	Crawford.
Eason, Bessie.....	G..	Fayetteville.	Washington.
Easterly, J. G.....	A..	Fayetteville.	Washington.
Eichelberger, Fannie....	G..	Fayetteville.	Washington.
*Eichelberger, Florence..	G..	Fayetteville.	Washington.
*English, T. M.....	E..	Dutch Mills.	Washington.
English, Laura.....	G..	Dutch Mills.	Washington.
Ellis, W. Y.....	E..	Fayetteville.	Washington.
Ellis, Baxter.....	G..	Helena.	Phillips.
Evins, Mamie	G..	Fayetteville.	Washington.
Evins, H. C.....	E..	Fayetteville.	Washington.
Eubanks, Mary.....	G..	Paris.....	Texas.
Farley, J. W.....	E..	Trident.....	Benton.
Fellheimer, Hermann....	E..	Hot Springs.	Garland.
*Flanary, C. A.....	E..	Clarence....	Indian Ter.
*Forest, Daisy.....	G..	Huntsville ..	Madison.
Gallaway, Rowena.....	G..	Fayetteville.	Washington.
Gollaher, Nora.....	G..	Fayetteville.	Washington.
*Grant, R. L.....	A..	Haynes	Lee.
*Granville, G. G.....	G..	Jonesboro ...	Craighead.
*Graves, N. G.....	G..	Lexa	Philips.
Gray, Winfield.....	G..	Oiltrough ...	Independ'ce.
Gray, R. A.....	G..	Altus.....	Franklin.
Griffin, E. H.....	E..	Fayetteville.	Washington.
Hagood, A. S.....	G..	Fayetteville.	Washington.
Hamiter, Eugene.....	G..	Walnut Hill	Lafayette.
Hardin, W. D.....	E..	Marion	Crittenden
Harmon, Jessie.....	G..	Wyman.....	Washington.

NAME.	COURSE.	POST OFFICE.	COUNTY.
Harriman, Francis.....	G..	Carmel.....	Chicot.
Harrison, E. O.....	E..	Fayetteville.	Washington.
*Harrison, T. E.....	E..	Fayetteville.	Washington.
Harris, Kittie.....	G..	Fayetteville.	Washington.
*Harris, U. D.....	E..	Turkahoma .	<i>Indian Ter.</i>
Harper, Marvin.....	E..	Three Creeks	Union.
*Hatcher, L. F.....	G..	Scotland ...	<i>Missouri.</i>
*Hearin, Lynch.....	E..	Hillsboro....	Union.
Hedrick, Ward.....	E..	Fayetteville.	Washington.
Hight, Willie.....	E..	Fayetteville.	Washington.
Hill, Ethel.....	G..	Fayetteville.	Washington.
Hill, H. B.....	E..	Fayetteville.	Washington.
Holmes, Tillar.....	G..	Selma.....	Drew.
*Horne, L. F.....	G..	Fayetteville.	Washington.
*Horner, Theo.....	E..	Carmel.....	Chicot.
*Horner, J. A.....	G..	Helena.....	Phillips.
Horsfall, Thomas.....	G..	Hazen.....	Prairie.
*Howard, C. C.....	E..	Dryfork.....	Carroll.
Hudgins, W. H.....	E..	Dallas.....	Polk.
Hudgins, Annie.....	G..	Dallas.....	Polk.
Hudson, Mattie.....	G..	Fayetteville.	Washington.
Hudson, Dollie.....	G..	Fayetteville.	Washington.
Hunt, Howard.....	E..	Fayetteville.	Washington.
Isbell, Virginia.....	G..	Fayetteville.	Washington.
*Jackson, James.....	E..	Monticello...	Drew.
*Jacobs, Tandy.....	G..	Harmony....	Johnson
*James, N. G.....	E..	Eureka.....	Carroll.
*James, F. D.....	E..	Fayetteville.	Washington.
*Jameson, Marcus.....	A..	El Dorado...	Union.
Johnson, M. D.....	E..	Pine Bluff...	Jefferson.
Johnson, Waldo P.....	E..	Paris.....	<i>Texas.</i>
Johnston, F. N.....	E..	Ozark.....	Franklin.
Jones, Nora.....	G..	Fayetteville.	Washington.
Jones, A. L.....	A..	Hartman....	Johnson
Jones, J. A.....	E..	Hattieville ..	Conway.
Kantz, Maud.....	G..	Fayetteville.	Washington.
Kantz, Willie.....	G..	Fayetteville.	Washington.
Kantz, Fred.....	E..	Fayetteville.	Washington.
Kimbrough, Daisy.....	G..	Dutch Mills.	Washington.
Kirby, W. R.....	E..	Little Rock..	Pulaski.
Knesal, Edward.....	E..	Fayetteville.	Washington.
Kruse, C. A.....	G..	Lake Village	Chicot.
Lake, Horton.....	G..	Fayetteville.	Washington.
Laughinghouse, E.....	G..	Fayetteville.	Washington.
Lewis, J. D.....	E..	Wyman.....	Washington.
Leverett, Ed.....	E..	Fayetteville.	Washington.
Lininger, C. B.....	G..	Springdale..	Washington.
Little, Jesse.....	G..	Greenwood ..	Sebastian.
Little, Paul.....	G..	Greenwood :	Sebastian.
*Lohman, Eugene.....	G..	Helena.....	Phillips.
*Luther, C. H.....	E..	Fayetteville.	Washington.
Luckenbill, John.....	E..	Snapp.....	Woodruff.

NAME.	COURSE.	POST OFFICE.	COUNTY.
*Madding, G. L.....	E..	Madding	Jefferson.
*Mahoney, E. O.....	G..	Arkadelphia	Clark.
*Malone, N. C.....	G..	Waldron.	Scott.
*Mann, Bertha	G..	Winslow	Washington.
*Martin, Lula.....	G..	Hackett.	Sebastian.
Martin, W. A.....	G..	Indian Bay .	Monroe.
Mayes, Helen.....	G..	Fayetteville.	Washington.
Melton, Hattie.....	G..	Fayetteville.	Washington.
Melton, Cora	G..	Fayetteville.	Washington.
*Mengo, Edward.....	G..	Barton	Philips.
Mesler, Rector.....	G..	Fayetteville.	Washington.
Merony, Edward.....	E..	Star City	Lincoln.
*McAbee, Moses.....	A..	Charleston ..	Franklin.
*McBee, E. C.....	G..	McBee's Ldg	Marion.
*McCormack, J.....	E..	Fayetteville.	Washington.
*McClure, Agnes.....	G..	Boonsboro ...	Washington.
*McDaniels, G. S.....	G..	Jonesboro....	Craighead.
McHatton, J. A.....	E..	Robinson	Benton.
McNiell, Leslie.....	E..	Fayetteville.	Washington.
*McPherson, S. H.....	G..	Hamilton....	<i>Texas.</i>
Middleton, R. J.....	E..	Fayetteville.	Washington.
Miller, Maud.....	G..	Mandeville..	<i>Missouri.</i>
Monroe, Dora.....	G..	Fayetteville.	Washington.
Moon, Joseph L.....	E..	Walnut Rdge	Lawrence.
Moore, L. R.....	G..	Oak Lodge ..	<i>Indian Ter.</i>
Moore, Nellie.....	G..	Fayetteville.	Washington.
*Moore, G. C.....	E..	Fayetteville.	Washington.
*Moore, Jones A.....	E..	Atkins.....	Pope.
Morgan, W. W.....	E..	Star City	Lincoln.
Mough, Mable.....	G..	Fayetteville.	Washington.
*Nash, Frankie.....	G..	Joplin.....	<i>Missouri.</i>
*Nash, Arthur.....	E..	Joplin	<i>Missouri.</i>
Nettleship, Milroy.....	E..	Fayetteville.	Washington.
*Nettleship, E. L.....	G..	Fayetteville.	Washington.
Newton, Frank.....	G..	Portland	Ashley.
Norman, W. S.....	E..	Fayetteville.	Washington.
Oliver, Cora.....	G..	Fayetteville.	Washington.
O'Kane, W. S.....	E..	Altus.....	Franklin.
*Owens, E. O.....	A..	Yellville....	Marion.
*Parish, Fred.....	G..	Newport	Jackson.
*Patton, Rush.....	E..	Pine Bluff ..	Jefferson.
Patterson, Mae.....	G..	Fayetteville.	Washington.
Payne, D. G.....	E..	Fayetteville.	Washington.
Payne, Bessie....	G..	Fayetteville.	Washington.
Philbeck, J. W.....	E..	Fayetteville.	Washington.
Pleasants, W. E.....	G..	Fayetteville.	Washington.
Pugh, Julia.....	G..	Fayetteville.	Washington.
Quarles, Tevie.....	G..	Fayetteville.	Washington.
*Quilling, D. K.....	G..	Lake Village	Chicot.
Raines, Fred	G..	Fort Smith..	Sebastian.
Randolph, J. P.....	G..	Hot Springs.	Garland.
Read, Florida.....	G..	Fayetteville.	Washington.

NAME.	COURSE.	POST OFFICE.	COUNTY.
*Read, Alex.....	G..	Fayetteville.	Washington.
Rees, W. A.....	E..	Fayetteville.	Washington.
Robinson, Fannie.....	G..	Fayetteville.	Washington.
Robinson, Pearl.....	G..	Fayetteville.	Washington.
Rogers, G. S.....	A..	Farmington.	Washington.
Rogers, C. B.....	E..	Neosho.....	Missouri.
*Rosser, Thomas.....	G..	Fayetteville.	Washington.
Rosser, Olga.....	G..	Fayetteville.	Washington.
*Rowell, Frank.....	E..	Tyro.....	Lincoln.
Rushing, B. F.....	A..	Dover.....	Pope.
*Samuelson, Delia.....	G..	Fayetteville.	Washington.
Scott, Olive.....	G..	Fayetteville.	Washington.
*Shannon, Gunter.....	E..	Fayetteville.	Washington.
Sheppard, J. W.....	G..	Three Creeks	Union.
Shuler, G. W.....	G..	Fayetteville.	Washington.
Shuler, R. N.....	G..	Fayetteville.	Washington.
Simonds, E. B.....	E..	Fayetteville.	Washington.
Slaughter, J. L.....	G..	Goshen.....	Washington.
Smith, C. E.....	E..	Marion.....	Crittenden.
Smith, Gertrude.....	G..	Fayetteville.	Washington.
Smith, W. H.....	E..	Fayetteville.	Washington.
Smith, J. R.....	G..	Etna.....	Franklin.
*Spencer, Felix.....	E..	Fayetteville.	Washington.
Stephens, Geo. K.....	G..	Newport.....	Jackson.
Stone, S. K.....	E..	Fayetteville.	Washington.
Stone, B. H.....	E..	Fayetteville.	Washington.
Swink, Percy.....	E..	Festus.....	Missouri.
Smeltzer, Homer.....	G..	Van Buren..	Crawford.
Taylor, Lena.....	G..	Fayetteville.	Washington.
Taylor, T. G.....	E..	Fayetteville..	Washington.
Tilley, Ada.....	G..	Fayetteville.	Washington.
Thach, S. R.....	E..	Russellville.	Pope.
Thompson, J. T.....	G..	Russellville.	Pope.
*Tomlinson, Charles.....	E..	Fort Smith..	Sebastian.
Turner, J. C.....	E..	Cypert.....	Phillips.
*Turner, Paul K.....	G..	Eureka.....	Carroll.
*Turner, Renfro.....	G..	Poplar Grove	Phillips.
Vandeventer, Ed.....	G..	Fayetteville.	Washington.
Vandover, R. C.....	G..	Rogers.....	Benton.
Vaulx, Susie.....	G..	Fayetteville.	Washington.
Vaulx, Eleanor.....	G..	Fayetteville.	Washington.
Vining, Fred.....	G..	Pine Bluff..	Jefferson.
Waddill, J. B.....	G..	Paris.....	Logan.
Walker, Erin.....	G..	Fayetteville.	Washington.
Walker, Jennie.....	G..	Fayetteville.	Washington.
Wallace, Ethel.....	G..	Fayetteville.	Washington.
*Warfield, C. M.....	G..	Lexa.....	Phillips.
Warner, T. D.....	G..	Jonesboro...	Craighead.
Watts, N. V.....	E..	Muldrow....	Indian Ter.
Wellborn, H. K.....	G..	Helena....	Phillips.
*West, C. G.....	G..	Berryville..	Carroll.
*Westbrook, H.....	G..	Traskwood..	Saline.

NAME.	COURSE.	POST OFFICE.	COUNTY.
Whithorne, J. D	G..	Lake Village	Chicot.
Whitlow, Annie.....	G..	Fayetteville.	Washington.
*White, D. C.....	E..	Seba.....	Benton.
*White, Thomas.....	G..	Fayetteville.	Washington.
Whitten, Camillos.....	A..	Bodcaw	Nevada.
*Williams, J. L.....	G..	Cincinnati ..	Washington.
Williams, Raymond.....	E..	Fayetteville.	Washington.
Williamson, A. W.....	E..	Jackson.....	<i>Mississippi.</i>
Willard, Bunyan.....	E..	Hot Springs.	Garland.
Wilson, M. K.....	G..	Camden.....	Ouachita.
Wilkins, Ernest.....	G..	Phillips	Lee.
Winn, J. E.....	G..	Nashville ..	Howard
Wilson, Claud.....	A..	Farmington.	Washington.
Wolford, Thomas.....	E..	Fayetteville.	Washington.
Wolford, Charles.....	E..	Fayetteville.	Washington.
Woods, Lee.....	E..	Seba.....	Benton.
Wood, Nora.....	G..	Harris.....	Washington.
Wood, Mattie.....	G..	Fayetteville.	Washington.

MUSICAL DEPARTMENT.

NAME.	POST OFFICE.	COUNTY.
Ash, Gertrude.....	Fayetteville.	Washington.
Baum, Florence.....	Fayetteville.	Washington.
Berry, Mary.....	Crittenden ..	Marion.
Blackburn, Rowena.....	Fayetteville.	Washington.
Brasch, Charles.....	Newport	Jackson
Brown, E. T.....	Sweet Home.	Pulaski.
*Buchanan, Grace P.....	Fayetteville.	Washington.
Buchanan, Frank E.....	Fayetteville.	Washington.
Byrnes, Bessie.....	Fayetteville.	Washington.
*Curry, Jennie.....	Fayetteville.	Washington.
Cooper, Willis.....	Sans Bois...	<i>Indian Ter.</i>
Davis, Annie D.....	Fayetteville.	Washington.
Davies, Edith.....	Fayetteville.	Washington.
Deavers, Bertha.....	Springdale..	Washington.
Duncan, Annie.....	Fayetteville.	Washington.
Duncan, Eleanor.....	Fayetteville.	Washington.
Gunter, Gertrude.....	Fayetteville.	Washington.
Hill, Lola.....	Fayetteville.	Washington.
Hoag, Alice.....	Judsonia.....	White.
Hudgins, Annie.....	Dallas.....	Polk.
Hudson, Mattie.....	Fayetteville.	Washington.
King, Ruby.....	Harrison...	Boone.
Lake, Horton.....	Fayetteville.	Washington.
Leverett, Rose.....	Fayetteville.	Washington.
Lewis, Lena..	Fayetteville.	Washington.
*Magraw, Nona.....	Ridgeway...	<i>Missouri.</i>
Melton, Henry.....	Fayetteville.	Washington.
Morrow, Annie.....	Greenwood ..	Sebastian.
Phillips, Mamie.....	Springdale..	Washington.
Reed, Clifton.....	Fayetteville.	Washington.
Reynolds, Nona.....	Eureka Spgs.	Carroll.
Smeltzer, Homer.....	Van Buren..	Crawford.
Smith, Gertrude.....	Fayetteville.	Washington.
*Taylor, Mattie.....	Fayetteville.	Washington.
Tilly, Clara.....	Rheas Mills.	Washington.
*Vincenheller, Jeanne	Fayetteville.	Washington.
Watson, Katherine.....	Bentonville .	Benton.
Whitlow, Annie.....	Fayetteville.	Washington.
Wood, Mattie.....	Fayetteville.	Washington.

SUMMARY FOR SHORT SESSION OF 1895 AND FOR 1895-'96.

BY CLASSES.

Second Year.....	187
First Year.....	284
Total.....	471

BY COURSES.

Agricultural.....	23
Engineering.....	136
General.....	312
Total.....	471

NOTE.—The above summary includes pupils enrolled during the short term, beginning March 5, 1895, and ending July 17, 1895, also for term beginning September 19, 1895, and ending June 18, 1896.

SUMMARY FOR SESSION OF 1895-'96.

BY CLASSES.

Second Year.....	145
First Year.....	210
Total.....	355

BY COURSES.

Agricultural.....	16
Engineering ..	108
General.....	231
Total.....	355

GENERAL SUMMARY, 1895-'96.

Collegiate Students.....	193
Preparatory Students.....	355
Music Pupils.....	38
Total.....	586
Counted twice.....	31
	555
Total at Fayetteville.....	555
Medical Students (Little Rock).....	86
Law Students (Little Rock) ...	22
Branch Normal Students (Pine Bluff).....	169
Total.....	832

Alumni Association.

The object of this association is to maintain the interest of the graduates in the institution and bring them into closer relation with the University. To this end all graduates are considered members. The association holds meetings annually during commencement week. The officers of the association for 1894 are :

J. N. TILLMAN, President.

MISS MATTIE PATTON, Secretary.

Committee on Banquet :

J. V. WALKER, G. W. DROKE, MRS. J. F. MAYES,
MISS JESSIE CRAVENS.

Committee on Speaker :

J. F. MAYES, DR. A. S. GREGG, B. F. WOOD.

LIST OF ALUMNI.

Don C. B. Aiken, C. E., '89, Eng. Dep., Johnstown Co.,
Johnstown, Pa.

L. S. Anderson, B. L. L., '84, clerk in land office, Wash-
ington, D. C.

J. D. Arbuckle, B. A., '92, Principal Public Schools, Mag-
azine, Ark.

C. F. Armistead, B. A., '93, Principal Belle Point Public
School, Fort Smith, Ark.

L. R. Ash, C. E., '93, Prof. Mathematics Coe College, Cedar
Rapids, Iowa.

C. O. Bates, A. B., '83, Prof. of Chemistry, Coe College,
Cedar Rapids, Iowa.

J. H. Bates, B. A., '86, Lawyer, Corsicana, Texas.

J. C. Bell, B. A., '94, Teacher of German, High School,
Fort Smith, Ark.

Nettie Barnett, B. L., '76, Mrs. C. E. Boles, Fayetteville,
Ark.

Blanche Bibb, B. A., '93, Fayetteville, Ark.

J. W. Black, B. A., '92, Lawyer, McAlester, I. T.

W. J. Blackwell, B. C. E., '92, Engineer, Golden Lake, Ark.

Nora Blakely, A. B., '78, Mrs. H. M. Hudgins, Fayette-
ville, Ark.

- E. H. Braly, B. A., '94, Fayetteville, Ark.
W. P. Booth, A. B., '82, Farmer, Reyno, Ark.
Alice Borden, '77.
Laura D. Botefuhr, '75, Mrs. G. W. Schulte, Fort Smith, Ark.
Preston Bowles, B. C. E., '88, W. Va. Central R. R., Elkins, W. Va.
O. P. Brewer, B. S., '93, Webbers Falls, I. T.
W. D. Brown, A. B., '82, Physician, Newtonia, Mo.
J. W. Butler, A. B., '79, Real Estate Agent, Washington.
*E. B. Carden, B. L., '77.
*Ella Carnall, A. M., '81.
A. H. Carrigan, A. B., '82, Lawyer, Washington, Ark.
Ann E. Carson, '75, Mrs. Jno. Knight, Jonesboro, Ark.
Augusta O. Carson, '75, Mrs. T. W. Cline, Downey, Cal.
C. K. Chanslor, A. B., '82, Lawyer, Grant's Pass, Oregon.
W. R. Cherry, A. B., '82.
Jessie Cravens, B. L. L., '83, Instructor in Elocution, Ark. Ind. University.
Wm. N. Crozier, B. A., '88, Missionary to China.
Lula Curry, B. S., '92, Mrs. G. L. Teller, Fayetteville, Ark.
Mike Danaher, B. A., '88, Lawyer, Ozark, Ark.
Hadge Davies, B. A., '93, Instructor in Anglo-Saxon and English Literature, Augusta Female Seminary, Staunton, Va.
Lizzie P. Davis, '75, Mrs. R. C. Brown, Florence, Arizona.
W. E. Dixon, B. A., '88, Teacher in Waldo, Ark.
C. H. Drake, B. C. E., '91, Engineer with J. A. C. Waddell, Kansas City, Mo.
N. F. Drake, B. C. E., '88, Asst. State Geologist, Austin, Tex.
G. W. Droke, A. M., '80, Asso. Prof. of Mathematics, Ark. Ind. University.
W. H. Duncan, B. L. L., '84, Lawyer, Conway, Ark.
Mallie Dyer, B. A., '94, Prof. of English and German, Florida State College, Tallahassee, Florida.
*W. L. Edmiston, B. L. L., '84.
F. W. Ellis, A. B., '81, U. S. Signal Service, Galveston, Tex.
W. W. England, A. B., '83.
L. F. Fishback, B. S., '89, Lawyer, Wichita Falls, Tex.
J. C. Floyd, A. B., '79, Lawyer, Yellville, Ark.
W. M. Flynn, B. A., '88, Teacher, Kennedale, Tex.
J. R. Gannaway, B. A., '90, Warren, Ark.

- D. A. Gates, A. B., '84, County Judge, Desha Co., Arkansas City, Ark.
- J. E. Gibson, M. E., '94, Civil Engineer, Philadelphia, Pa.
- W. P. Goodwin, B. L. L., '84, Merchant, El Dorado, Ark.
- Belle L. Gorton, A. B., '76, Author, Chicago, Ill.
- C. D. Greaves, A. B., '83, Lawyer, City Attorney, Hot Springs, Ark.
- *Alfred W. Gregg, A. B., '76.
- Andrew S. Gregg, A. B., '78, Physician, Fayetteville, Ark.
- L. W. Gregg, A. B., '82, Lawyer, Fayetteville, Ark.
- *C. E. Hall, B. C. E., '93, Civil Engineer, Russellville, Ark.
- H. J. Hall, B. A., '94, State Senator, Waldron, Ark.
- W. J. Hamilton, B. A., '92, Lawyer, McAlester, I. T.
- Agnes Harris, A. B., '76, Mrs. Johnson, Kansas City, Mo.
- Sara E. Harris, A. B., '76, Mrs. C. P. Conrad, Osceola, Mo.
- Grace Harrison, B. S., '89, Mrs. T. L. Brown, Greenwood, Ark.
- J. H. Harrod, A. B., '79, Lawyer, Little Rock, Ark.
- J. C. Hart, A. B., '85, Lawyer, Dardanelle, Ark.
- J. T. Hawkins, '79, Physician, Mount Holly, Ark.
- J. D. Head, B. A., '94, Deputy Circuit Clerk, Little River Co., Columbia, Ark.
- I. G. Hedrick, B. C. E., '92, Civil Engineer, Kansas City, Mo.
- W. Rhodes Hervey, B. S., '90, Lawyer, Santa Anna, Cal.
- E. W. Hillis, B. L. L., '84, Lawyer, Jonesboro, Ark.
- *J. H. Hobbs, A. B., '88.
- Daniel Hon, A. B., '82, Lawyer, Waldron, Ark.
- Cener Holcomb, B. A., '92, Teacher, Harrell Institute, Muskogee, I. T.
- S. A. Horton, B. A., '91, Lawyer, Fairview, Ark.
- J. W. Howell, B. L. L., '85, Cotton Buyer, Clarksville, Ark.
- J. H. Hudson, B. L. L., '84, Farmer, Dardanelle, Ark.
- G. A. Humphreys, A. B., '90, Assistant Physician, Bellevue Hospital, N. Y.
- Edgar Jennings, A. B., '77.
- Gustave Jones, B. L. L., '82, Lawyer, Newport, Ark.
- Albert P. Johnson, A. B., '76, Lawyer, Winfield, Kan.
- *T. M. Johnson, B. L. L., '80.
- G. H. Kimball, B. C. E., '92, Auditor of the D. & P. R. R., Dardanelle, Ark.
- Artelle Alice King, B. L. L., '80, Mrs. J. C. Belt, Brooken, I. T.
- E. B. Kinsworthy, B. L. L., '85, Attorney General of the State of Arkansas.

- T. B. Kitchens, A. M., '80, Merchant, Paragould, Ark.
Ella Lake, B. L. L., '84, Mrs. S. W. Barnett, Fayetteville, Ark.
W. H. Langford, A. B., '86, Banker, Member of the Board of Trustees, A. I. U., Pine Bluff, Ark.
J. A. M. Lanier, A. B., '82.
Abbie Leverett, B. A., '94, Teacher, Georgetown, Texas.
Mary Leverett, B. A., '86, Mrs. J. A. Taff, Washington, D. C.
Eva McCart, '75, Mrs. D. M. Main, Cheney, Kan.
J. B. McDonough, A. B., '82, Ass't U. S. Prosecuting Attorney, Member of the Board of Trustees, A. I. U., Fort Smith, Ark.
W. R. McFarlane, A. B., '82, Lawyer, Greenwood, Ark.
Chas. F. McKinney, '75, Traveling Salesman, Ozark, Ark.
Jno. C. McNeeley, B. C. E., '89, Planter, Rackensack, Ark.
S. E. Marrs, A. B., '79, Editor of the Democrat, Secretary Board of Trustees, A. I. U., Fayetteville, Ark.
J. C. Marshall, A. M., '79, Lawyer, Little Rock, Ark.
Mack Martin, B. M. E., '91, Asst. Supt. of Mech. Arts, A. I. U.
Pearl Martin, B. S., '93, Teacher at Hot Springs, Ark.
Collin Massie, A. B., '77, Teacher, Springdale College, Springdale, Ark.
J. F. Mayes, A. B., '83, Lumber Dealer, Fayetteville, Ark.
W. M. Mellette, B. L., '77, Lawyer, Fort Smith, Ark.
Mai Middleton, A. B., '86, Mrs. R. Chasteen, Fort Smith, Ark.
H. P. Mobberly, C. E., '94, R. R. Civil Engineer, Longview, Texas.
Lucy B. Mock, B. A., '94, Teacher, Prairie Grove, Ark.
E. L. Mock, B. A., '94, Prairie Grove, Ark.
J. F. Moore, B. S., '93, Asst. Chemist, Agri. Exper. Sta., Fayetteville, Ark.
J. H. Moore, B. S., '93, Chemist, Solway Process Co., Syracuse, N. Y.
J. I. Moore, A. B., '81, Lawyer, County Judge, Phillips Co., Helena, Ark.
Lucy J. Moore, '75, Mrs. Ross, Cincinnati, Ark.
Mattie W. Morrow, B. S., '90, Teacher in Public School, Fayetteville, Ark.
Sara Mulholland, A. B., '86, Mrs. J. F. Mayes, Fayetteville, Ark.
W. H. Neal, B. L., '76, Lawyer, Van Buren, Ark.
A. J. Newman, B. A., '91, Teacher in Texas.
E. P. Notrebe, '85, Physician, Springfield, Mo.
T. F. Oats, A. B., '82, Physician, Mexico, Texas.

- Ora Obenshain, B. S., '89, Teacher in Public School, Eureka Springs, Ark.
- Ida Pace, B. A., '88, Asso. Prof. of English and Modern Languages, A. I. U.
- C. C. Patton, B. A., '91, Lawyer, Cincinnati, Ohio.
- L. Alice Patton, A. M., '79, Teacher, Prairie Grove, Ark.
- Mattie J. Patton, B. L. L., '80, Mrs. Dr. Chas. Jenkins, Denver, Ill.
- Thos. A. Pettigrew, A. M., '78, Lawyer, State Senator, Charleston, Ark.
- Harry Pharr, B. C. E., '93, Civil Engineer on the levee, Golden Lake, Ark.
- J. S. Pharr, B. A., '92, Civil Engineer.
- J. W. Pickel, A. B., '82, Physician for Crystal Plate Glass Co., Crystal City, Mo.
- R. T. Pittman, B. S., '94, Graduate Student, Fayetteville, Ark.
- Alice Polson, B. S., '88, Mrs. W. C. Hutchinson, 1409, Pendleton Ave., St. Louis, Mo.
- W. W. Powell, B. A., '88, Lawyer, Batesville, Ark.
- Anna Putman, A. M., '75, Teacher in Public School, Fayetteville, Ark.
- G. W. M. Reed, Jr., B. L. L., '84, Lawyer, Los Angeles, Cal.
- Lina Reed, A. B., '81, Fayetteville, Ark.
- *Maggie Reed, A. B., '78.
- O. S. Rieff, A. B., '81, Lawyer, Deputy State Auditor, Little Rock, Ark.
- P. A. Rogers, A. B., '82, Farmer, Gravett, Benton Co., Ark.
- *Z. C. Ross, A. B., '80.
- Lawrence Russell, A. B., '80, Lawyer, Russellville, Ark.
- G. C. Schoff, B. C. E., '88, Civil Engineer, Philadelphia, Pa.
- G. C. Shell, B. L. L., '82, Lawyer, State Senator, Lake Village, Ark.
- A. W. Shreve, B. C. E., '91, Farmington, Ark.
- H. B. Shreve, B. C. E., '91, with Johnson & Co., Johnstown, Pa.
- *W. D. Simms, B. L., '77.
- G. V. Skelton, B. C. E., '91, Prof. of Mathematics, Agricultural College, Corvallis, Or.
- Ida Slagle, B. A., '89, Mrs. Gilbreath, Siloam Springs, Ark.
- Henry Stroup, A. B., '83, Lawyer, Paris, Ark.
- Wm. S. Sutton, A. M., '78, Supt. Schools, Houston, Tex.
- *Albert Taff, B. C. E., '90.
- J. L. Taff, A. B., '84, Prin. Public School, Austin, Tex.

- Mary Taff, B. A., '89, Mrs. G. V. Skelton, Corvallis, Or.
Lou Taliaferro, B. L. L., '83, Stenographer, Kansas City, Mo.
E. L. Taylor, B. L., '76, Lawyer, Bentonville, Ark.
C. V. Teague, A. B., '79, Prosecuting Attorney, Hot Springs, Ark.
B. J. Tillar, B. A., '86, Capitalist, Fort Worth, Texas.
J. N. Tillman, B. L. L., '80, District Prosecuting Attorney, Fayetteville, Ark.
Lee Treadwell, B. C. E., '88, Asst. Eng. for J. A. C. Waddell, Kansas City, Mo.
S. C. Treadwell, B. A., '94, Lawyer, Tishomingo, I. T.
A. M. Vance, B. C. E., '93, Pierce City, Mo.
James Vandeventer, B. S., '93, Teacher, Armstrong Academy, Caddo, I. T.
S. F. Vaulx, B. A., '92, Memphis, Tenn.
Julia Vaulx, B. A. '92, Teacher Public School, Aspen, Col.
Annie Waggener, B. L., '77, Teacher, South McAlester.
W. J. Waggener, A. M., '76, Prof. Nat. Philosophy, Univ. of Colorado, Boulder, Col.
J. V. Walker, A. B., '77, Lawyer, Fayetteville, Ark.
C. A. Watson, A. B., '77, Teacher, Fayetteville, Ark.
J. J. Watson, A. B., '81, Teacher, California.
G. A. Warren, B. L., '88, Physician, Little Rock, Ark.
J. N. Wheeler, B. A., '90, Capitalist, Warren, Ark.
Naomi J. Williams, A. M., '80, Instructor in Ark. Ind. Univ.
R. H. Willis, A. B., '88, Prof. of English and Modern Languages, A. I. U., Fayetteville, Ark.
A. C. Wood, B. M. E., '92, Engineer, Philadelphia, Pa.
B. F. Wood, B. E. E., '93, Elect. Eng., Philadelphia, Pa.
C. D. Wood, A. B., '79, Associate Justice Supreme Court of Ark.
W. H. Woodall, A. B., '85, Pres. of Female College, Lake City, Fla.
C. D. Woolverton, B. L. L., '85, Prin. Schools, Sheridan, Ark.

NOTE.—The President will be pleased to receive information as to the address and occupation of those members of the Alumni for whom these data are wanting. The Alumni are especially requested to give notice of any omissions or errors in the foregoing list.

*Deceased.

Bequests to the University.

Forms of bequests are given below in the hope that the friends of education will aid the Trustees and Faculty in their earnest efforts to enlarge and perpetuate the work of the University.

1. I devise and bequeath to the Trustees of the Arkansas Industrial University at Fayetteville..... dollars for its permanent endowment.

2. I devise and bequeath to the Trustees of the Arkansas Industrial University at Fayetteville \$30,000 for the endowment of a professorship of..... in said University.

3. I devise and bequeath to the Trustees of the Arkansas Industrial University at Fayetteville \$3,000 (or \$4,000 or \$5,000) for the endowment of a fellowship in the department of..... in said University.

4. I devise and bequeath to the Trustees of the Arkansas Industrial University at Fayetteville \$1,500 for the endowment of a scholarship in said University.

5. I devise and bequeath to the Trustees of the Arkansas Industrial University at Fayetteville..... dollars to increase the Library of said University.

Appendix.

SPECIMEN EXAMINATION FOR ADMISSION TO FRESHMAN CLASS.

Examinations will be of the same general character as the following:

I. ARITHMETIC. 1 hour.

First, second, third, fourth and fifth questions same as in examination for admission to the Preparatory School, page 173.

6. See Wentworth's Arithmetic, page 236, example 9.

7. See Wentworth's Arithmetic, page 261, example 5.

II. ALGEBRA. 1 ½ hours.

1. Simplify the following expressions by removing the parentheses and collecting like terms:

$$(a) - [b + \{ a - (d + a) \}]$$

$$(b) - [5x - (11y - 3x)] - [5y - (3x - 6y)]$$

2. Resolve the following into factors:

$$x^3 + y^3, x^4 - y^4, x^2 - 19x + 90, 240 + x - x^2, \text{ and } x^3 - 8.$$

3. Find the greatest common divisor of

$$8x^3 - 2x^2 - 53x - 39 \text{ and } 4x^3 - 3x^2 - 24x - 9.$$

4. Given: $2x + 3y + 4z = 20.$

$$3x + 4y + 5z = 26.$$

$$3x + 5y + 6z = 31.$$

To find the value of \dot{x} , y , z .

5. Find the cube root of

$$1-9x+39x^2-99x^3+156x^4-144x^5+64x^6.$$

6. Find the value of

$$(\sqrt{7}+5\sqrt{3})(2\sqrt{7}-5\sqrt{3});$$

and the value of x in

$$14-\sqrt{x}-3x=6, \text{ and}$$

$$x^2+6x=27.$$

III. PLANE GEOMETRY. $1\frac{1}{2}$ hours.

Demonstrate the following propositions:

1. The three perpendiculars from the middle points of the sides of a triangle meet in the same point.

2. An inscribed angle is measured by one-half of its intercepted arc.

3. Upon a given straight line, describe a segment of a circle which shall contain a given angle.

4. If two triangles have their sides respectively parallel, or respectively perpendicular, they are similar.

5. If from a point without a circle a secant and a tangent are drawn, the tangent is a mean proportional between the whole secant and the extreme segment.

IV. U. S. HISTORY. $1\frac{1}{2}$ hours.

Tell all about the following:

1. DeSoto. 2. The Battle of Guilford Court-house. 3. The Missouri Compromise. 4. The Doctrine of State's Rights.

V. GENERAL HISTORY. 1 hour.

Tell all about the following:

1. Cyrus the Great. 2. The Battle of Salamis.
3. Hannibal. 4. Alfred the Great. 5. Cardinal Richelieu.

VI. GEOGRAPHY. 1 ½ hours.

1. Name in their order twenty rivers flowing into the Atlantic Ocean or its arms, between the Bay of Fundy and the Florida Keys.

2. Name the principal cities of Louisiana, Texas, Ohio, Illinois, Michigan. and Minnesota (one city each), and describe their situation.

3. Describe the climate and productions of Mexico.

4 and 5. What and where are the following? Give exact locations: Aconcagua, Aral, Baikal, Bothnia, Ceylon, Delhi, Farewell, Formosa, Hecla, Munich, Ponchartrain, Sunda, Verde, Volga, Yukon.

VII. PHYSIOLOGY. 1 hour.

1. Describe the structure of the femur.

2. How does the blood-plasma differ from the blood serum?

3. Describe the formation of a blood clot.

4. Define the terms "afferent," "efferent," "voluntary," "involuntary," "reflex."

5. Name and give the most important characteristics of eight of the principal tissues of the body.

VIII. LATIN. 2 hours.

Translate Cæsar's Gallic War, Book I., chapter 22, from *prima luce* to *abstinebat*.

1. Give principal parts of *abesset, accurrit, teneri, cognovisse, instruit*.

2. Explain cases of *luce, equo, quem, ei, tempore*.

3. Explain uses of modes in *teneretur, teneri, fieret*.

4. Compare *prima, summus, proximum, longius*.

5. Give the whole indicative mode of *voluerit*, and the whole subjunctive of *abesset*, and translate the first person of each tense.

6. Decline *passibus, eum, quem, insignibus, uno*.

7. Parse *hostium, occupari*.

Translate Book II., chapter 32, from *ad hæc* to *dixerunt*.

Translate into Latin :

1. He will order the lieutenant to send soldiers as a relief to our men. 2. We are so many in number that we can easily keep their army from the march. 3. If they make peace with us, we shall go into that part where they wish us to be. 4. We cannot see the mountain, although it is of great height. 5. We shall march through Geneva at sunset, because we are not more than 20 miles distant.

Besides this, an oral examination is required.

SPECIMEN EXAMINATION FOR ADMIS-
SION TO FIRST YEAR IN THE PRE-
PARATORY SCHOOL.

Examinations will be of the same general character as the following:

I. ARITHMETIC THROUGH PERCENTAGE.

2 hours.

1. A boy runs 3.876 miles, dropping a piece of paper every 4.75 feet. How many pieces does he drop?

Analysis: In one mile there are 5280 feet, and in 3.876 miles there are 3.876 times 5280 feet=20,465.28 feet. If in 4.75 feet he drops one piece, in 20,465.28 feet he will drop as many pieces as 4.75 is contained in 20,465.28 feet, which is 4308 papers.

2. Reduce $\frac{365}{511}$ to its lowest terms.

3. A owns three-fifths of a ship worth \$25,748, B one-fourth of the remainder, C one-eighth of the amount belonging to A and B, and D owns what is still left. What is the value of D's share? Give full analysis.

4. Find cost of papering a room 32 feet long, 22 feet wide, 13 feet high, with paper 18 inches wide, 8 yards in a roll, at \$1.25 a roll, if 50 square yards be allowed for doors, windows and base boards.

5. The longitude of New York is 74° west, that of Paris is $2^{\circ} 20'$ east. When it is fifteen minutes past 10 a. m. in New York, what is the time in Paris?

6. A merchant lost 25 per cent by selling flour at \$6.00 per barrel. If he had sold it at \$9.00 per

barrel, what would have been the gain per cent?

7. What is the interest on \$500.25 for three years, three months and six days at 6 per cent?

II. GRAMMAR. 2 hours.

1. Name and define all the parts of speech.

2. Name and define all the different kinds of pronouns, all the different kinds of participles, and give an example of each kind.

3. Give three rules for forming the possessive case of nouns, with example of each. What is the possessive case of *conscience*?

4. Analyze the following sentences: 1. The boy that you saw is my younger brother. 2. One soldier was present when the roll was called.

III. GEOGRAPHY. 1 hour.

1. Name in their order twenty rivers flowing into the Atlantic Ocean or its arms, between the Bay of Fundy and the Florida Keys.

2. Name the principal cities of Louisiana, Texas, Ohio, Illinois, Michigan, and Minnesota (one city each), and describe their situation.

3. Describe the climate and productions of Mexico.

4 and 5. What and where are the following? Give exact locations: Aconcagua, Aral, Baikal, Bothnia, Ceylon, Delhi, Farewell, Formosa, Hecla, Munich, Ponchartrain, Sunda, Verde, Volga, Yukon.

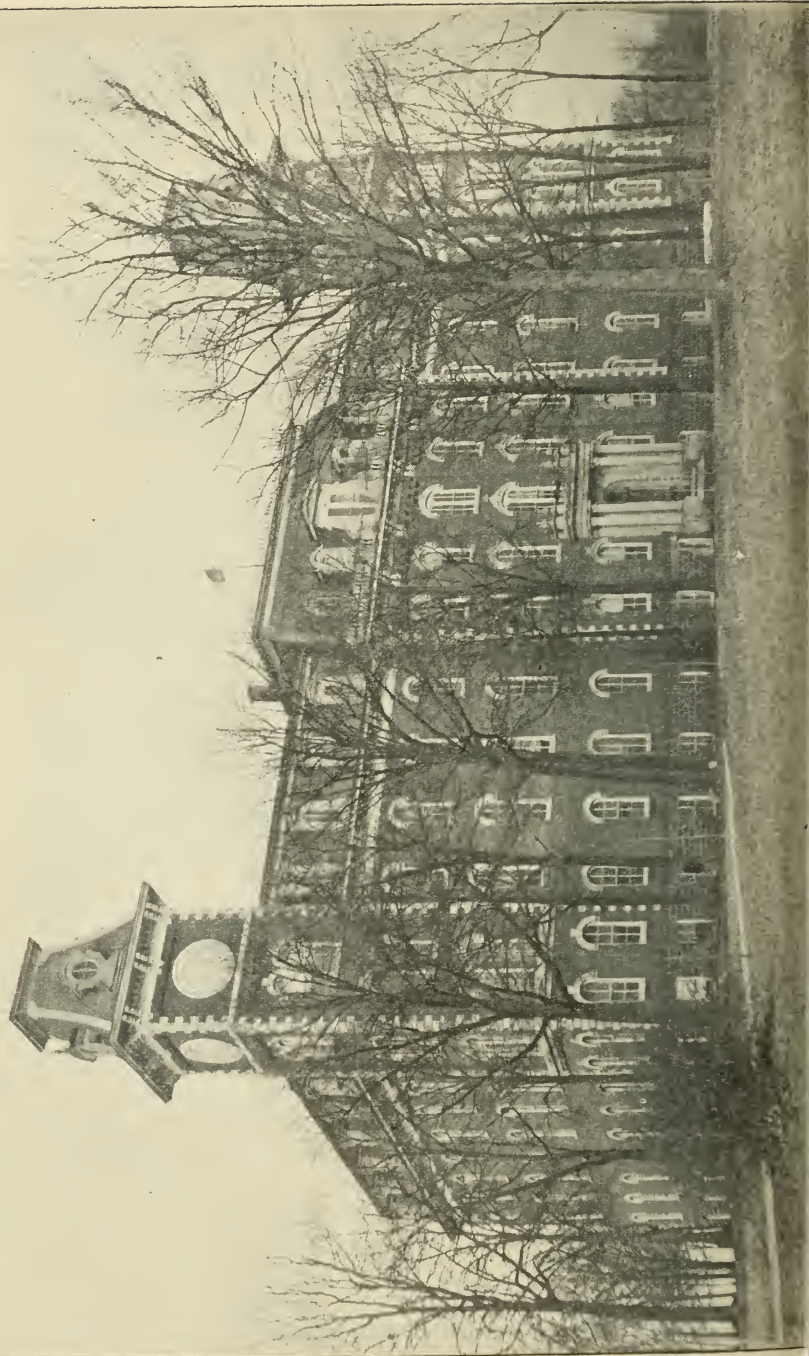
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TWENTY-FOURTH CATALOGUE
OF THE
...ARKANSAS...
INDUSTRIAL UNIVERSITY

FAYETTEVILLE,
WASHINGTON COUNTY, ARKANSAS.

MEDICAL AND LAW SCHOOLS AT LITTLE ROCK.
BRANCH NORMAL COLLEGE AT PINE BLUFF.

1896-97.

ANNOUNCEMENTS FOR 1897-98.

1897.
ARKANSAS DEMOCRAT COMPANY, PRINTERS AND PUBLISHERS,
LITTLE ROCK, ARK.

1897

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1898

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CALENDAR, 1897-98.

FAYETTEVILLE.

1897.

- SEPTEMBER 14—First term begins.
SEPTEMBER 14-17—Entrance examinations.
NOVEMBER 25—Thanksgiving, a holiday.

1898.

- JANUARY 21—First term examinations begin.
JANUARY 29—First term ends.
JANUARY 31—Second term begins.
MAY 30—Decoration day, a holiday.
JUNE 2—Second term examinations begin.
JUNE 3—Decoration day, a holiday.
JUNE 12—Baccalaureate sermon.
JUNE 16—Annual commencement.

MEDICAL DEPARTMENT, LITTLE ROCK.

1897.

- OCTOBER 1—Preliminary course begins.
NOVEMBER 2—Regular session begins.

1898.

- APRIL 30—Session ends.

LAW DEPARTMENT, LITTLE ROCK.

1897.

- OCTOBER 1—Fall term begins.
JANUARY 31—Fall term ends.

1898.

- FEBRUARY 1—Spring term begins.
JUNE 1—Spring term ends.

BRANCH NORMAL COLLEGE, PINE BLUFF.

1897.

- SEPTEMBER 7—Session begins.

1898.

- JUNE 5—Session ends.

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Assistant Agriculturist at Camden.



THE UNIVERSITY AND THE STATE.

The University is at the head of the public educational system of the State of Arkansas. It seeks to foster the higher educational interests of the State, broadly and generously interpreted, and to make provision for the demands of advanced scholarship in as many lines as its means will permit. It is the aim of its Faculty and Board of Trustees, from year to year, to bring it into still closer articulation with the public schools of the State, and in connection with them to afford to all the youth of either sex ample facilities for liberal education in literature, science and the industrial arts, and for the professional studies.

Through the aid received from the United States and from the State of Arkansas, the University is enabled to offer free tuition, except in the studies of Law, Medicine, Music, and Art and thus to open wide her doors to all seekers of learning.

The institution was established in accordance with an act of Congress making a grant of land for its benefit, and in accordance with an act of the General Assembly of this State carrying out the object of said grant.

LOCATION.

The University, except its Medical and Law Schools and Branch Normal College, is located at Fayetteville, Washington County, in northwestern Arkansas. It is therefore situated in the heart of the Ozark Mountains, and is more than 1,500 feet

above the sea level. The location is thought to be unsurpassed in salubrity of climate, beauty of surrounding scenery, variety and perfection of agricultural and horticultural productions, and in the morality and intelligence of its people.

Students may reach Fayetteville from both the north and the south by the Texas branch of the St. Louis and San Francisco Railroad, now running three trains daily each way, and connecting on the south with the Little Rock and Fort Smith Railroad at Van Buren.

BUILDINGS.

UNIVERSITY HALL.

This is a brick structure with cut stone trimmings and a stone foundation. It is four stories in height above the basement. It consists of a front building 214 feet in length and two wings, each 124 feet in depth, the whole forming three sides of a quadrangle. This building contains a large number of class rooms, Chapel, Library and Reading Room, separate Study Halls for the boys and girls of the Preparatory Department, Armory, Magazine, Band Room, Laboratories for Engineering, Biology and Geology, Music and Art Rooms, President's and Commandant's Offices, Natural History Museum, Examination Hall, Literary Society Halls, etc., in all seventy rooms, together with broad corridors and stairways. The building is heated mainly by steam, lighted by electricity, and supplied with water from the city waterworks.

SCIENCE HALL.

This building, designed especially for the departments of Chemistry and Physics, was erected in 1893; it is a substantial two-story brick building, 50x60 feet. On the first floor are the lecture rooms of the two departments, the physical laboratory and storeroom, and also the private laboratory of the professor in charge. On the second floor are the chemical laboratories, including a laboratory for general chemistry, a laboratory for qualitative analysis, and a laboratory devoted to quantitative analysis, also a storeroom for chemical supplies, a weighing room and a hallway. The building is supplied with gas and water and with the best modern appliances for technical work. It will accommodate about 100 students.

DORMITORIES.

The North Dormitory is a two-story frame building. It contains a dining hall, kitchens, storerooms, and on the second floor a number of rooms for students.

The South Dormitory is a substantial and handsome brick building, three stories high and containing over forty rooms. It is favorably located with a view to the health of the occupants, convenience of access to University Hall, and sightliness of appearance on the grounds. The rooms are large, well ventilated and lighted, and open into broad corridors extending lengthwise through the building. From a wide veranda in front there are three entrances to the building. There are also two rear entrances, and on the third floor a suite of rooms fitted up for an in-

firmly. Through the generosity of the ladies of Fayetteville, this suite of rooms has during the past year been thoroughly equipped.

AGRICULTURAL BUILDINGS.

The building of the Agricultural Experiment Station is of brick, one story in height. It contains the office of the Director; the laboratories of the Chemist, Horticulturist and Veterinarian; the museum, and several commodious storerooms. Belonging to the Department of Agriculture are a large barn, stock shed, dairy house, fruit house and other necessary outbuildings.

THE SHOPS.

The old shop building, erected in 1889, was totally destroyed by fire on the night of April 4, 1895. The machinery, excepting the boilers, was almost a total loss. Plans for a new building were at once begun, and before the year closed the new building was completed. It is of brick with stone foundation and iron roof, with a floor space of 8,900 square feet, whereas the old building contained but 7,600 square feet. The building provides a wood room 80x40, a foundry 35x40, forge shops 32x40, machine shop 40x48, and boiler room 32x35. Besides the main building there is a brick building 15x35, divided into two rooms, without communication, one of which is for office purposes, and the other for the storage of oil and paint; also a frame coal bin 12x30, covered with iron and accessible to teams from either side. The new buildings are heated by steam and provided with water from the city waterworks and

with fire hose. When fully equipped they will accommodate about 100 students in class work at one time. The grading for foundations and the larger part of the woodwork and painting were done by students.

LIBRARY.

The Library occupies the north wing of the main building, second floor. It now contains over 7,000 volumes, with numerous pamphlets, maps, charts, etc. Shelves are provided for 14,000 volumes, with room for expansion.

The alcoves are separated from the library hall by an iron railing; and only advanced students are permitted to have direct access to the shelves. The general reference works, however, are outside the railing.

The Dewey decimal system of classification and the Cutter book-numbers are used, thereby simplifying the circulation of books and the general care of the Library.

The Reading Room contains, on Athenæum newspaper files, nearly all the papers published in Arkansas, and also the St. Louis and Memphis dailies.

The leading high-class periodicals (including magazines, reviews and various technical monthlies) are regularly taken, and are bound as they accumulate. This vast fund of current literature is rendered more useful and accessible by "Poole's Complete Index" to periodic literature from 1802 to the present time.

Among the works of general reference in the Library are all the best encyclopedias and dictionaries.

The card catalogue in preparation will greatly facilitate reference and will also greatly increase the usefulness and popularity of the Library.

The privileges of both Library and Reading Room are free to all students.

There is also a Special Library of 330 volumes belonging to the department of English and Modern Languages, and another of 600 volumes belonging to the Geological Department.

THE ARMORY.

The Armory is a large, well lighted room, 60x80 feet, situated in the basement of the north wing of the main building. It is substantially fitted up with arm racks, compartments for equipments, and all other necessary conveniences. Two other rooms are fitted up for the use of the Military Department, and are used as band room and storeroom.

The equipment of the department consists of 275 Springfield Cadet Rifles, of the same model as those used at the United States Military Academy at West Point, 275 sets of infantry equipments, twenty-one cadet swords, West Point pattern, National colors, flags, signal equipment, tents, ammunition, etc., and a superior set of band instruments.

The arms and equipments are furnished the University by the general government, and the tents are loaned the department by the State. The other equipments have been purchased by the University

and belong to the Military Department. The equipment is sufficient for a battalion of 350 cadets.

THE MUSEUMS.

The University has two Museums, which are of great value in furnishing materials for the illustration of scientific studies and of the industrial arts.

MUSEUM OF NATURAL HISTORY.

The Museum occupies the fourth floor of the north wing of the main building. The collections in the Museum at present comprise the following:

200 birds and mammals, 80 species.

200 reptiles and amphibians, 40 species.

1,500 fishes, 350 species.

1,000 insects and other invertebrates, 200 species.

18 skeletons.

3,500 plants, 1,500 species.

1,500 fossils, 230 species.

400 minerals, 200 species.

150 specimens of rocks, representing about 100 varieties of building and ornamental stones.

A few archæological specimens, also a few anatomical and physiological preparations.

Except fishes, invertebrates, minerals and fossils, most of our collections are from Arkansas.

Major Earle has deposited in the Museum his large collection of minerals, fossils, war curios, etc. This collection was formerly deposited in Cane Hill College.

Our aim is to make the Museum of more practical and educational value, and to this end we invite

the coöperation of the people of the State in adding to our collections in one or more directions indicated below :

1. An exhibition of valuable rock materials used in construction, architecture, and the arts.
2. An exhibition of native ores, with specimens illustrating the metallurgy of useful metals.
3. Collections of plants and animals of the country, including fossil species.
4. Historical and archæological collections.

The Museum will gratefully acknowledge donations of various objects, and the donors may be sure that anything of value sent to it will be carefully preserved and duly credited to the donor. Collections in the hands of private parties are likely to be soon scattered or spoiled through improper care and handling. The Museum is now prepared to receive collections on deposit, and to preserve and display them under the owner's name until called for. In this way owners of interesting collections are usually much more certain of having their collections permanently preserved, and the collections will be seen by more people and become more useful.

Through the kindness of the St. Louis and San Francisco and the Eureka Springs Railways the curator has been much aided in making collections in Northwestern Arkansas.

While our Museum is most important on account of its educational value, at the same time it serves as an important purpose in representing the resources of this State. Any donations or aid in making collections for the Museum will be highly appreciated.

INDUSTRIAL MUSEUM.

Among the facilities for instruction contained in the equipment of the University, may be mentioned :

A Dean steam pump with air chamber, water and steam cylinders, and valve chambers sectioned, so that a student may see the working parts.

A Cameron steam pump with the steam cylinder sectioned.

A Blake steam pump in full working order.

Two small horizontal and one vertical steam engine made by the students in the shop.

A fire hydrant in working order.

A set of three successive portions of plate from a boiler showing effect of scale in producing overheating and bagging.

Samples of articles of manufacture form a large part of the collection, and are found to be of great service in acquainting students with the construction of such articles. Among these may be mentioned link belting, steampipe covering, grease cups, injectors in sections, water meters, insulated wire, lead cables, and lubricating oils. Models of a large number of machines of various kinds are also in the collection.

THE LABORATORIES.

In the laboratories of the University opportunities are afforded for practical instruction in Chemistry, Mineralogy, Physics, Botany, Zoölogy, Entomology, Horticulture, and in Civil, Mechanical, and Electrical Engineering.

CHEMICAL LABORATORIES.

The laboratories for chemical work are four in number and are situated in Science Hall. The Laboratory of General Chemistry is furnished with desks capable of accommodating thirty-five students. Each desk has a cupboard and two drawers, and is provided with gas and water. The Qualitative Laboratory has desks for sixteen students. Each desk is provided with suitable conveniences for taking care of apparatus and is supplied with all the common reagents. The room is provided with a hood and other equipments usually found in qualitative laboratories. The Quantitative Laboratory has suitable accommodations for eight students and, beside the usual equipments, a Blake ore crusher and an assay furnace. Adjoining the Quantitative Laboratory is the weighing room, which contains two of Becker's best analytical balances, besides a number of less accurate instruments suitable for weighing large quantities of chemicals. The storeroom contains all the apparatus and chemicals. The room is in charge of an assistant, who gives out the supplies and keeps the books. This room contains the apparatus for preparing distilled water and has also some space for laboratory work.

PHYSICAL LABORATORY.

The Physical Laboratory is a room 20x40 feet and is provided with large tables suitable for use in performing experiments in General Physics and physical measurements. It has also two pillars built up from the ground and independent of the rest of the

building for the accommodation of delicate instruments which would otherwise be disturbed by the vibrations of the floor. The storeroom of physical apparatus is supplied with instruments suitable for illustrating the principles of Physics and for the use of students in practical work.

BIOLOGICAL LABORATORY.

The Biological Laboratory will accommodate about fifty students. It is well equipped with microscopes, microtomes, micro-chemical reagents, and the special apparatus for bacteriological work. A large aquarium furnishes means for the preservation of living animals for classes in Zoölogy. All the apparatus necessary for the collection, mounting, and preservation of plants and insects is supplied in abundance. Each table is fitted with gas and distilled water, and each student is supplied with all the chemicals and apparatus needed in botanical and zoölogical dissections, and in the hardening, sectioning, staining and mounting of material for histological work. Within the last year a thoroughly equipped dark-room for photographic and microphotographic work, an entomological laboratory for advanced students, and a complete set of anthropometric apparatus have greatly increased the facilities for teaching the natural sciences.

GEOLOGICAL LABORATORY.

The Geological Laboratory is provided with aneroid barometers, compasses, hand levels, pedometers, etc., for field work, two petrographic microscopes, and an excellent equipment of drawing apparatus for the construction of geological sections and

topographic maps; also, with apparatus for the construction of relief maps. A well equipped laboratory for Determinative Mineralogy has recently been added. There has also recently been added an excellent relief map of San Francisco Peninsula, 3 feet by 4 feet, and one of the State of Arkansas, 7 feet by 8 feet. The latter is a copy of the map that was made under the direction of Dr. John C. Branner for the Department of Mines, Manufactures, and Agriculture of Arkansas, and was displayed at the World's Fair. It is one of the best state relief maps in the country.

ENGINEERING LABORATORY.

The boilers generating steam for heating and power also furnish practice in determining the amount of steam made for each pound of coal burned. The amount of moisture in the steam is also tested by a calorimeter constructed in the shops. A feed pump and an injector are so arranged that comparative trials may be made for efficiency as boiler feeders. The engine which runs the shops and electric light plant is used to furnish practice in measurement of power from indicator cards and the pony brake. During the session of 1892 a series of tests were made to determine the water consumption of the engine per horse power per hour, in which the weight of steam used was determined by condensing the exhaust in a feed water heater at atmospheric pressure, and weighing the amount delivered. In the fall of 1893, a 30-horse power Reynolds-Corliss engine was installed in the main laboratory, where it is used to drive the dynamos, testing machine, etc. It has proved to be of the greatest service in experimental work, and especially in valve setting.

A Riehle testing machine, run by a 10-horse power motor and capable of exerting a full pressure of 60,000 pounds, has been installed and used in experimental work upon the materials used in buildings, bridges, and machinery. A practical application has been made in determining the tensile strength of the steel plates used in the two 30-horse power boilers for the Branch Normal shops, and the 60-horse power boiler for the Arkansas Industrial University shops.

A 2,000-pound cement testing machine is used to determine the tensile strength of various cements and their resistance to crushing. A saw for stone cutting has been designed and constructed for the purpose of cutting out specimens for tensile and crushing tests.

ELECTRICAL LABORATORY.

The Electrical Laboratory affords excellent facilities for experimental work with practical dynamo electric machines. In the laboratory will be found the leading types of machines for arc and incandescent lighting and for power; constant current and constant potential motors, and generators, representative of the different methods of power transmission; a Kelvin balance, standard cells, and a potentiometer for standardizing measuring instruments; Weston and other voltmeters and ammeters; electro-dynamometers; galvanometers of the tangent, reflecting, and Deprez-D'Arsonval types; magnetometers; standard resistance coils and bridges, and absorption dynamometers.

This apparatus enables the student to carry on a very wide range of experimental work, and to attain practical efficiency in operating and testing electrical machinery and instruments.

Students are also allowed to inspect the plant of the Fayetteville Electric Light and Power Company, and to take measurements and make tests on it. The Electrical Laboratory is connected with their primary mains, and is thus supplied with alternate currents of high potential for experimental work.

SHOP EQUIPMENT.

The present equipment is incomplete, consisting, for the wood shop, of a 12-inch buzz planer, a circular saw, and two 12-inch wood lathes, beside small tools and work benches; for the foundry, of an 18-inch Colliau cupola and moulder's tools; for the blacksmith shop, of a portable forge, several anvils and a large number of small tools; for the machine shop, of a 14-inch engine lathe, 20-inch drill press, pipe fitting and other bench tools. A 35-horse power Westinghouse compound engine provides power for running the machinery, and exhaust steam for the heating pipes of the new building.

The boiler room contains two 75-horse power return tubular boilers, set in a three-travel furnace. These are used for heating the main building and running the shops. There are also two exhaust heaters, a duplex feed pump, and a pair of tanks, holding about 200 gallons each, for convenience in accurately measuring water used in boiler tests and other experimental work.

DRAWING ROOM.

The equipment includes the usual tables and stools; and among the special apparatus and instruments may be mentioned the planimeter, pantograph, blue-print frame, traverse table, odontograph, slide rule, sets of railroad and machine curves, roof pitches, etc. A blue-print room has recently been fitted up with complete facilities for the details of the blue-print process. The room is also being provided with photographic apparatus which will be used to prepare lantern slides and prints illustrating various branches of engineering.

SURVEYING EQUIPMENT.

For the work in railroad, land, and city surveying, the equipment furnishes chains, tapes, plumb bobs, a Locke level, aneroid barometer, sextant, Y level, transits with solar attachments, plane table, etc. The surrounding country also offers problems in most of the varieties of work which meet the practical surveyor. Each year, during the summer, a party of engineering students go into camp one week for practice in surveying and locating railway lines.



GENERAL INFORMATION.

REQUIRED, ELECTIVE, AND OPTIONAL STUDIES.

Each student must have not less than twelve recitations, or their equivalent per week; two hours of laboratory, shop or farm work, drawing, or sight reading, are counted as equivalent to one hour of recitation. When fewer than twelve recitations per week, or their equivalent, are specified in any course, the student must elect studies to supply the deficiency. Students known to be in ill health or having physical defects which interfere with their studies, are sometimes allowed less than twelve recitations. Electives taken from the studies of a class one year below have full value; but, if more than one year below, their value will be fixed by the Faculty. Students are not allowed to take additional studies to exceed the equivalent of eighteen recitation hours in all (exclusive of military work), except by permission of the Faculty.

SPECIAL STUDENTS.

Persons who desire to pursue studies in one of the courses of the University and do not desire to become candidates for a degree will be admitted on the following conditions:

1. In general all persons under 21 years of age must pass the entrance examinations required of candidates for some degree, as described on pages 36 to 40.

2. Persons over 21 years of age must show that they have a good knowledge of English and

are otherwise prepared to pursue profitably the studies they may desire to pursue.

Should a student who enters under the preceding provision (2) subsequently become a candidate for graduation, he must then pass all examinations for admission required of such candidate.

CLASSIFICATION OF STUDENTS.

A student is enrolled as a member of the highest class with which he has nine recitations or their equivalent per week, provided he be pursuing in class all the lower studies in his course which have not been completed.

EXAMINATIONS.

1. Examinations, chiefly in writing, are held near the end of each term. The grades are determined by combining the values of the daily recitations and of the examinations, and are divided into five groups, as follows: "Excellent" (E); "Good" (G); "Fair" (F); "Poor" (P); "Bad" (B). A grade not lower than "Fair" is required for a "pass," which is the equivalent of about 75 per cent. At the end of each term a report is made to the parent or guardian of each student showing his progress, general conduct, etc.

2. If a student has failed in any study, he may nevertheless be allowed to take up the next study in advance, provided he be deemed by the professor in charge of the department to which such study belongs, not incompetent to pursue it; but he will be required to pass a satisfactory examination in the study in which he failed, or take it up with the next class.

3. If a student has proven competent to continue his advanced work, but has not completed all the preceding studies in his course, he must resume the latter, and if he be found to be overworked, he will be required to drop a part of his advanced work.

DEGREES.

The degrees conferred for undergraduate work are the academic degrees of Bachelor of Arts and Bachelor of Science, and the technical degrees of Bachelor of Civil Engineering, Bachelor of Mechanical Engineering, and Bachelor of Electrical Engineering.

For graduate work the degrees conferred are Master of Arts, Master of Science, and Doctor of Philosophy.

HONORS.

Students who have attained grade "E" in work aggregating fifty-five hours per week (counted on the basis of a four years' course), are granted degrees "with special distinction."

Students who have attained grade "E" in work aggregating thirty-five hours per week, or grade "E" or "G" in work aggregating fifty-five hours per week, are granted degrees "with distinction."

UNIVERSITY ORGANIZATIONS.

LITERARY SOCIETIES.

Material changes have been recently made in the organization of the literary societies, and their meetings, which are held weekly, afford enlarged opportunities for improvement in declamation, com-

position, debate, etc. Renewed interest in this valuable means of culture is shown by a number of students.

SCIENCE CLUB.

The Science Club was organized early in the fall of 1896. Its purpose is to stimulate interest in all branches of science, encourage the spirit of scientific investigation, and keep its members in touch with the progress of science in general. While membership is open to all, students taking the science courses are urged to take an active interest in the meetings of this club. The meetings are held on the first and third Saturday evenings of each month.

THE SOCIOLOGY CLUB.

The Sociology Club is an organization having for its aim the investigation and discussion of the social relations and social problems of our civilization. This year its work has been conducted according to the outline of Small and Vincent's "Elements of Sociology," but many variations have been made to encourage original thought and study. Membership is free, and includes, besides students and professors, many citizens of Fayetteville. This club meets biweekly on Friday evenings.

THE ARKANSAS UNIVERSITY GEOLOGICAL AND BIOLOGICAL SURVEY.

For the promotion of interest in the natural sciences and a systematic investigation of the many interesting questions of natural history within and adjoining the State, it is proposed to organize the Arkansas University Geological and Biological Sur-

vey. A party will be organized for field work during the summer vacation under the direction of the professors in charge of Geology and Biology. Any student whose attainments are such as to permit him to take the work to advantage may be admitted to the party. In each case credit will be given in the University course according to the time spent and the character of the work done. Science teachers and others interested in science throughout the State are cordially invited to avail themselves of this opportunity of doing a pleasant and profitable summer's work.

UNIVERSITY MAGAZINE.

The "Ozark," successor to the "University Magazine," is a monthly periodical published by a stock company and edited by a committee of students. It is sent free to all the accredited schools and to such other schools in the State as may desire to have it.

LECTURE COURSE.

The following lectures and entertainments were given during the year, under the auspices of the Lecture Association of the University:

E. P. Elliott—Monologue, "Hazel Kirke," November 6.

Rev. Sam W. Small—"Is Our Civilization a Failure?" November 25.

Polk Miller—"The Old Plantation Negro," December 21.

Champ Clark—"Noted Characters of the Fifty-third Congress," January 9.

Dr. Robert Nourse—"Dr. Jekyll and Mr. Hyde," February 15.

John Temple Graves—"The Woman of the Twentieth Century," April 3.

Schubert Quartette—Musical programme, April 22.

NOTE—One other lecture was given, but at the time of going to press arrangements were not completed for it.

RELIGIOUS EXERCISES.

Religious exercises are held regularly in the University Chapel at the beginning of each daily session. Students are required to attend.

The churches of Fayetteville cordially welcome the students to their Sunday Schools and various meetings for prayer and religious instruction. The denominations represented in the city are Baptist, Presbyterian, Cumberland Presbyterian, Methodist, Protestant Episcopal, Christian, and Roman Catholic. Many of the students are actively engaged in the work of the different church societies and guilds. The Young Men's Christian Association has commodious quarters in the city, and a commendable interest is shown. A Bible class has held meetings Sunday afternoon, and has been well attended.

ATHLETIC ASSOCIATION.

The purpose of this organization is to encourage the development of the physical man.

The Association as originally formed consisted of the A. I. U. Athletic Club, the A. I. U. Tennis Club, the A. I. U. Baseball Club and the A. I. U. Football Club; and it is further provided that if any other club, organized by the students of the University for the practice of any sport, game, or exercise not already represented by one of the members of the Association, shall make a written application for membership in the Association, and the said application shall be approved by the governing body of the Association, the petitioning club shall become a member of the Association with

all the rights and privileges pertaining to such membership.

SALE OF ARDENT SPIRITS PROHIBITED.

By an act of the General Assembly of the State of Arkansas, approved March 6, 1875, it is unlawful for any person to sell or give any vinous or ardent spirits within 3 miles of the Arkansas Industrial University, unless it be prescribed by a regular practicing physician for medicinal purposes.

FEES AND EXPENSES.

Matriculation, charged all new students.....	\$ 5 00
Tuition per session, charged all except beneficiary students.....	10 00
Contingent fee, after first year.....	3 00
Tuition in Music (see page 88)	
Furniture for dormitory students, from \$6 to	15 00
Board in dormitory at cost, per month, from \$7 to.....	8 00
Board in private families, per month, from \$10 to.....	15 00
Uniform suit, purchased by student, from \$13 to.....	16 00
Washing, per month, about.....	1 00
The necessary expenses for a student who wishes to live cheaply are:	
Board in dormitory, 9 months, about....	\$ 72 00
Washing, 9 months, about.....	9 00
Furniture, first year only, \$6 to.....	15 00
Matriculation, first year only.....	5 00
Contingent fee, after first year.....	3 00
<hr/>	
Total expenses first year, apart from books and clothes, about.....	\$ 101 00
Total expenses afterward, apart from books and clothes, about.....	\$ 84 00

Students leaving the University frequently sell their furniture at a small reduction.

Rooms in the University dormitories are free, but occupants provide their furniture, fuel and lights. If there are not rooms enough for all, preference is given to Arkansas students. An officer of the University is in charge of the building, and the rooms are inspected by the Faculty whenever deemed necessary.

Students boarding elsewhere are under the supervision of the President of the University, and are allowed to board only at places approved by him.

BOARD FOR YOUNG LADIES.

There is at present no special residence for girls. They are assisted in finding board in respectable families; but the Faculty is not so situated as to exercise constant supervision over them out of college hours. Parents at a distance who send a daughter to the University, should therefore be well satisfied as to her discretion, or else should place her under control of the family with whom she boards. The following ministers, pastors of the local churches named, kindly offer their services in assisting to secure suitable boarding places for young ladies: Rev. S. W. Davies, Presbyterian; Rev. R. H. Hainesworth, Methodist; Rev. F. T. Charlton, Cumberland Presbyterian; Rev. N. M. Ragland, Christian; Rev. Francis Bozeman, Baptist, and Rev. J. J. Vaulx, rector of St. Paul's Church (Episcopal).

ARRIVAL OF STUDENTS.

A student, on arriving at Fayetteville, should report at once to the President of the University and matriculate.

Immediately after matriculation he must report to the professor controlling his major subject of study. This professor will direct him in his work, his examinations, choice of electives, etc. Any academic courses may be elected and such technical courses as may be approved by the professor of the major subject. Needless delay in reporting or unseemly conduct may justify exclusion from the University.

CONDITIONS OF ADMISSION TO THE UNIVERSITY.

Applicants for admission should present certificates of honorable discharge from the school last attended, or furnish other evidence of general good conduct.

PREPARATION FOR THE FRESHMAN CLASS.

1. *English.* Maxwell's English Grammar and Raub's Rhetoric, or a full equivalent; a composition of 200 to 300 words, correct in spelling, punctuation, paragraphing, and grammar, on a subject announced at the time of the examination. In 1897-1898 the subject of composition will be taken from Scott's Talisman (Ginn & Co.), or from Shakespeare's Julius Cæsar, or Midsummer Night's Dream (Maynard, Merrill & Co.).

Students, preparing for the Freshman class, should have annotated editions of these books and use constantly an unabridged dictionary. They should write as many as six compositions on subjects taken from these books, and should make a thorough review a short time before examination. More than half the failures are in composition and meters.

After the session of 1897-'98 the admission requirements in English will be those of the American

Association of Colleges, including Harvard, Yale, Cornell, and most of the leading institutions in the United States. The examination will be divided into two parts:

(a) *Reading and Practice.* A few books are assigned for reading. The candidate is required to present evidence of a general knowledge of the subject-matter of these books, and to answer simple questions on the lives of their authors. The form of examination will usually be the writing of a paragraph or two on each of several topics set in the examination paper. The treatment of these topics is designed to test the candidate's power of clear and accurate expression, and calls for only a general knowledge of the substance of the books. In place of a part or the whole of this test, the candidate may present an exercise book, properly certified by his instructor, containing compositions or other written work done in connection with the reading of these books.

The books set for this part of the examination will be:

1898-1899—Milton's *Paradise Lost*, Books I. and II.; Pope's *Iliad*, Books I. and XXII.; the Sir Roger de Coverley Papers in *The Spectator*; Goldsmith's *The Vicar of Wakefield*; Coleridge's *Ancient Mariner*; Southey's *Life of Nelson*; Carlyle's *Essay on Burns*; Lowell's *The Vision of Sir Launfal*; Hawthorne's *The House of the Seven Gables*.

1899-1900 — Dryden's *Palamon and Arcite*; Pope's *Iliad*, Books I., VI., XXII. and XXIV.; the Sir Roger de Coverley Papers in *The Spectator*; Goldsmith's *The Vicar of Wakefield*; Coleridge's

Ancient Mariner; De Quincey's *The Flight of a Tartar Tribe*; Cooper's *The Last of the Mohicans*; Lowell's *The Vision of Sir Launfal*; Hawthorne's *The House of the Seven Gables*.

1900-1901—Dryden's *Palamon and Arcite*; Pope's *Iliad*, Books I., VI., XXII., and XXIV., the *Sir Roger de Coverley Papers* in *The Spectator*; Goldsmith's *The Vicar of Wakefield*; Scott's *Ivanhoe*; De Quincey's *The Flight of a Tartar Tribe*; Cooper's *The Last of the Mohicans*; Tennyson's *The Princess*; Lowell's *The Vision of Sir Launfal*.

(*b*) *Study and Practice*. Other books are assigned for more careful study. The examination upon these books covers subject-matter, form, and structure, and also tests the candidate's ability to express his knowledge with clearness and accuracy.

The books set for this part of the examination will be:

1898-1899—Shakespeare's *Macbeth*; Burke's *Speech on Conciliation with America*; De Quincey's *The Flight of a Tartar Tribe*; Tennyson's *The Princess*.

1899-1900—Shakespeare's *Macbeth*; Milton's *Paradise Lost*, Books I. and II.; Burke's *Speech on Conciliation with America*; Carlyle's *Essay on Burns*.

1900-1901—Shakespeare's *Macbeth*; Milton's *Paradise Lost*, Books I. and II.; Burke's *Speech on Conciliation with America*; Macaulay's *Essays on Milton and Addison*.

In order to pass this examination, a student must have a good practical knowledge of English

Grammar and of an elementary Rhetoric such as Raub's, Waddy's, or Williams's; and no candidate will be accepted whose work is notably defective in point of spelling, punctuation, idiom, or division into paragraphs.

2. *Arithmetic*. The examination will be taken from Wentworth's Grammar School Arithmetic, the whole of which is required. Teachers preparing candidates for entrance should, in teaching arithmetic, require them to analyze every example capable of analysis, or give a thorough course in Mental Arithmetic. Students who are not quick at analysis in Arithmetic usually make poor progress in higher Mathematics.

3. *Algebra*. To Simultaneous Quadratic Equations, with special attention to factoring, the theory of exponents, and radicals. The examination will be taken from Wentworth's Higher Algebra.

4. *Plane Geometry*. The first four books of Wentworth's Geometry.

5. *History*. The examination will be taken from Chambers' History of the United States, and from Barnes's General History.

6. *Geography*. Any complete manual, such as Maury's or Frye's, will give the preparation, if thoroughly mastered. Special attention is given to the geography of the United States and of Arkansas.

7. *Physiology*. Martin's Human Body, briefer course.

8. *Latin*. Collar & Daniell's Beginner's Latin; Cæsar's Gallic War, four books, with questions on Grammar and on the subject-matter, military equipment, etc. Harper & Tolman's Cæsar is recom-

mended. Latin is not required for admission except of Normal students and of those who are candidates for the degree of Bachelor of Arts.

Candidates for the higher classes, or for the Freshman class after beginning of session, will be examined also in subjects passed over by the class.

Each student should come prepared for all the studies in some one class. If he is behind in one or more studies, he becomes irregular, and is necessarily subject to many inconveniences, though he may be admitted, and classified according to his attainments.

ORDER OF EXAMINATIONS FOR ADMISSION.

Wednesday, September 15.—9 a. m., registration of students; 1 to 3 p. m., Geometry; 3 to 4 p. m., Physiology.

Thursday, September 16.—1 to 3 p. m., Algebra; 3 to 4 p. m., Geography.

Friday, September 17.—9 to 12 m., Arithmetic; 1 to 4 p. m., Latin.

Saturday, September 18.—9 to 11 a. m., English Grammar and Analysis; 11 to 12 m., English Composition, Reading; 1 to 2:30 p. m., U. S. History; 2:30 to 4 p. m., General History.

EXAMINATIONS AT PLACES OTHER THAN FAYETTEVILLE.

Students living more than a hundred miles from the University may obtain special local examinations two weeks before the beginning of each session. The questions will be sent to the principal of any school or to any examiner, provided such officer makes his application not later than one month before the beginning of a session. The questions must

be submitted by the principal or county examiner to the candidate under the usual restrictions of a written examination, and the questions and answers must be returned by the same officer to the University with his indorsement that the examination was properly conducted.

ACCREDITED SCHOOLS.

Admission on Certificates.—Any high school or academy whose course of instruction covers all the branches requisite for admission to the Freshman class of the University may be placed upon the list of accredited schools. Upon application from the principal of any high school or academy an officer of the University will be sent as soon as possible to examine the course of study and methods of teaching. If his report is favorable the school will be placed upon the accredited list, and its graduates will be admitted to the Freshman class without examination. Students of accredited schools who may not be graduates will be excused from examination on subjects required for admission to the University upon certificates of proficiency in such studies from the principal. A school once accredited will retain that relation until its administration is changed, or until a notification that the work is unsatisfactory is received from the University. Upon a change of administration, an application to be continued upon the list of accredited schools should be forwarded to the University. Such request may be granted without a new examination if the authorities can assure themselves that no prejudicial changes in the courses of study or in the thoroughness of instruction will be made.

The University will do all in its power to bring about that close and cordial relation which should bind together the various departments of the educational system of the State.

LIST OF ACCREDITED SCHOOLS.

The President of the University cordially recommends the following schools as preparatory to the Freshman class :

- Fort Smith High School, Principal, B. W. Torreyson.
Rogers Academy, Principal, J. W. Scroggs.
Little Rock High School, Principal, R. C. Hall.
Marianna Institute, Principal, T. A. Futrall.
Lonoke High School, Principal, J. J. Doyne.
Pine Bluff High School, Principal, J. H. Witherspoon.
Judsonia High School, Principal, W. W. Condray.
Paris High School, Paris, Tex., Principal, J. G. Wooten.
Hinemon University School, Monticello, Ark., Principal, J. E. Erwin.
Garnett High School, Garnett, Kan., Principal, F. McClellan.
Little Rock Academy, Principal, W. H. Tharp.
Helena High School, Principal, W. M. Rivers.
Hot Springs High School, Principal, Geo. B. Cook.
Amity High School, Principal, S. M. Samson.
Harrison High School, Principal, C. L. Scott.
Neosho Public School, Principal, J. M. Stevenson.
Arkansas Normal School, Sulphur Rock, Ark., Principal, J. W. Decker.
Paris Academy, Principal, G. S. Minmier, Paris, Ark.
Dardanelle High School, Principal, P. L. Burrow, Dardanelle, Ark.
Russellville High School, Principal, E. L. Gatewood, Russellville, Ark.
Eureka Springs High School, Principal, C. S. Barnett, Eureka Springs, Ark.

APPOINTMENT OF BENEFICIARIES.

An Act of the General Assembly of the State of Arkansas "To Regulate the Appointment of Beneficiary Students in the Arkansas Industrial University and to Amend Section 4088 of the Digest of the Statutes of 1894," approved April 19, 1895, reads as follows: •

"*Section 4088.* It shall be the duty of the Board of Trustees to apportion the number of beneficiaries who shall be admitted as students in the University, without tuition, among the several counties of the State, according to population, and to notify the county judge of each county of the number apportioned to the county at least two months prior to the beginning of each regular annual session of the school; and it shall be the duty of the county judge to appoint from the actual residents of the county the number of beneficiaries to which it may be entitled, a preference being given to those noted for diligence and proficiency in study; and the appointment so made shall be entered of record. If the judge of any county shall fail to appoint its quota of beneficiaries, or if those appointed shall fail to attend, the President of the University shall appoint such beneficiaries to the full number authorized by law from other counties having their full quota; *Provided*, such appointments shall be vacated on application of the county judge of a county so failing to fill its quota."

NUMBER OF BENEFICIARIES.

The number of beneficiaries fixed by the Board of Trustees is 1,000, distributed to the counties of the State in proportion to the population.

There is also one "Honorary Scholarship" to each county, to be elected for superior merit and proficiency, from the public schools of each county, according to section 2, of act of July 23, 1868.

All the beneficiary students should be present at the opening of the first term, and unnecessary delay will lead to the forfeiture of their appointments.

QUALIFICATIONS.

The attention of county judges is called to the following requirements for admission to the lowest preparatory class:

1. Wentworth's Grammar School Arithmetic.
2. Maxwell's Elementary Grammar and Composition.
3. Maury's or Frye's Complete Geography, or an equivalent.
4. The intelligent reading of the Fifth Reader.
5. The spelling of any words in the Fifth Reader.

It is *highly important* in making appointments to *note carefully these requirements; otherwise students coming to the University unprepared incur needless expense and go away disappointed and often discouraged.*

FORMS OF APPOINTMENT.

Students who have been appointed beneficiaries must bring evidence of appointment in the following form, to be sent by the judge of the county court, in accordance with the sixth section of an act approved March 6, 1875.

[Form 1—Appointment.]

No [To be given to the student.]

TO WHOM IT MAY CONCERN:

I hereby appoint of County, State of Arkansas, as a beneficiary to the Arkansas Industrial University.

Given under my hand this day of 189.....

Send a notice like the following to the President of the University, and one to the Secretary of the Board of Trustees, at Fayetteville:

[Form 2—Notice to President of University.]

..... Arkansas, }
..... }

To the University.

I hereby notify you that I have this day appointed of County, State of Arkansas, a beneficiary of the Arkansas Industrial University.

Given under my hand this day of 189.....

APPORTIONMENT OF BENEFICIARIES.

COUNTIES.		COUNTIES.	
Arkansas	10	Lee	16
Ashley	13	Lincoln	12
Baxter	7	Little River	6
Benton	24	Logan	19
Boone	15	Lonoke	15
Bradley	8	Madison	15
Calhoun	7	Marion	10
Carroll	16	Miller	12
Chicot	12	Mississippi	9
Clay	13	Monroe	12
Clark	15	Montgomery	7
Cleburne	8	Nevada	17
Cleveland	10	Newton	6
Columbia	19	Ouachita	15
Conway	16	Perry	6
Craighead	8	Phillips	28
Crawford	11	Pike	3
Crittenden	11	Poinsett	7
Cross	6	Polk	3
Dallas	9	Pope	19
Desha	11	Prairie	10
Drew	15	Pulaski	45
Faulkner	17	Randolph	12
Franklin	18	Saline	11
Fulton	8	Scott	19
Garland	11	Searcy	7
Grant	8	Sebastian	28
Greene	9	Sevier	8
Hempstead	24	Sharp	12
Hot Spring	10	Stone	8
Howard	12	St. Francis	10
Independence	21	Union	16
Izard	14	Van Buren	11
Jackson	15	Washington	30
Jefferson	29	White	21
Johnson	15	Woodruff	12
Lafayette	6	Yell	18
Lawrence	10		

ABSENCES AND WITHDRAWALS.

Absences from the University during the session are not permitted except for valid reasons. The right of a parent to withdraw his son at any time, without reason assigned, is recognized; but without so withdrawing him, he cannot relieve him of the obligation to attend to his duties at the University. The incidental absences of students during the session are exceedingly disadvantageous, both to themselves and to the University. While, therefore, the Faculty permit them, in cases where propriety or urgent necessity seems to make them unavoidable, they hold it to be a duty to inquire into the reasons for which the permission is solicited.

Parents or guardians who wish to withdraw their children or wards from the University should write to the President stating their wishes. No honorable discharge will be given to a student under age who is unable to produce the written application of his parent or guardian for his withdrawal, nor will an honorable discharge be given to a student under censure of any kind, whether for neglect of duty or other cause, even though he may have the consent of his parent or guardian for his withdrawal from the University.

THE AGRICULTURAL EXPERIMENT STATION.

The National Government established the Experiment Station as a department of the University in 1887, and maintains it to investigate agricultural problems for the aid of the farmers of the State.

The work of the Experiment Station is divided into the special lines of Agriculture, Horticulture,

Chemistry, and animal and plant diseases. Specialists are employed in each line, and experiments are made both in the field and laboratory in the improvement of soils, the rotation of crops, diseases of plants and domestic animals, in fertilizers, the value of stock foods, dairying and other matters. Students interested in agricultural subjects are given opportunity to observe the experiments and to acquaint themselves with the work of the Station in its various departments; the bulletins are also available for their use. The experiments and their results are published in bulletins, which are sent free to farmers, stock raisers and fruit growers of the State, and to others interested in agriculture.

Those who desire the Station bulletins should apply for them to the Director of the Station, Fayetteville, Ark. One application is sufficient to obtain all future bulletins, if desired.

MILITARY DEPARTMENT.

The head of this department is an officer of the United States Army detailed by the War Department for duty at the University.

All male collegiate students are required to take the Theoretical Course, and all male students over 15 years of age are required to take the Practical Course in Military Science, the latter including infantry drill, target practice, camping, guard duty and various other exercises, the course covering the entire period of the student's stay at the University. This instruction is in accordance with the Act of Congress donating lands for the establishment of the University, which requires that "Military Science and

Tactics'' shall be taught in addition to the usual course of study.

The system of practical instruction closely follows that used in the United States Army. It contains a course of gymnastic exercises for the development and improvement of the arms, chest, legs, hands and feet. Besides being excellent physical training, this instruction has many advantages mentally. The necessity of being alert, listening for each word of command, and acting promptly on it, quickens the wit and cultivates the habit of fixing the attention and concentrating the thoughts. In addition to all this, it inculcates in the student a respect for authority and discipline which is equaled by no other system.

The cadets are organized into two battalions composed of field staff, band, and six companies. The officers and noncommissioned officers are selected from those students who are most proficient in their drill and military studies, and most exemplary in their deportment, the majors, captains and lieutenants being taken, usually, from the Senior and Junior classes, and sergeants and corporals from the Sophomore and Freshman classes. An office in one of the battalions is one of merit and distinction, and any unbecoming conduct subjects the appointee to reduction to the ranks.

In connection with the battalions a band of not exceeding twenty-five pieces is maintained. It receives the best instruction obtainable, practices three hours per week, and performs at all military ceremonies.

A competitive drill is held annually at the close

of the school year, when prizes are awarded for proficiency in this department. The result of the last competition held in June, 1896, was as follows:

COMPETITION AMONG THE COMPANIES.

To Company "D", Captain J. L. Moore, commanding, was awarded the National Color for the following year.

CAPTAINS' COMPETITION.

To Captain (now Major) E. K. Braly was awarded the Sword.

INDIVIDUAL COMPETITION.

To Corporal E. G. Martin was awarded the Gold Medal.

ARMY APPOINTMENTS.

The three students of the Senior class having the highest grade of merit in this department are reported to the Secretary of War, and their names are recorded in the Adjutant-General's Office and published in the Army Register for that year. The President of the United States, in appointing officers from civil life, gives preference to those whose names are so recorded. Cadet officers, on graduation, are brevetted in the State Guard with the rank held by them in the Cadet Battalions at the date of their graduation, and recommendations of the Commandant of Cadets as to special military qualifications of graduates of the military course are filed in the office of the Adjutant-General of the State and considered in appointing commissioned officers of the State Guard.

A neat uniform of gray cloth, with brass buttons and black trimmings, is required to be worn by

all cadets at drill. The uniform, complete, costs about \$15, and with ordinary care will last an entire year.

ORGANIZATION OF THE CORPS OF CADETS FOR THE YEAR 1896-7.

Elias Chandler, First Lieutenant 16th U. S. Infantry,
Commandant of Cadets.

COMMISSIONED AND NONCOMMISSIONED STAFF.

Cadet First Lieutenant and Adjutant.....	James Mitchell, Jr.
Cadet First Lieutenant and Quartermaster.....	R. S. Medearis.
Cadet Sergeant Major.....	D. P. Holmes.
Cadet Quartermaster Sergeant	J. L. Campbell.

BAND.

Cadet First Lieutenant, Commanding Band.....	Willie Howell.
Cadet First Lieutenant, Leader of Band.....	I. F. Stewart.
Cadet Second Lieutenant, Assistant Leader of Band ..	H. A. Melton.
Cadet Principal Musician.....	A. W. Bevers.
Cadet Principal Musician.....	R. N. Cummings.
Cadet Drum Major.....	H. D. Mann.
Cadet Sergeant of the Band	T. D. Warner.

FIRST BATTALION.

Cadet Major, Commanding the Battalion.....	J. H. Davis.
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COMPANY "B."

Cadet Captain.....	E. L. Spencer.
Cadet First Lieutenant.....	R. N. Graham.
Cadet Second Lieutenant.....	C. D. Frierson.
Cadet First Sergeant.....	B. E. Turner.
Cadet Sergeant.....	C. R. Fillmore.
Cadet Sergeant.....	J. B. Burton.
Cadet Sergeant.....	O. J. Owen.
Cadet Sergeant.....	G. B. Johnson.
Cadet Corporal.....	W. E. Babb.
Cadet Corporal	L. G. Crawley.
Cadet Corporal.....	T. A. Edwards.
Cadet Corporal	C. B. Martin.

COMPANY "C."

Cadet Captain.....	A. J. McDaniel.
Cadet First Lieutenant	C. G. Price.

Cadet Second Lieutenant.....	F. L. Dengler.
Cadet First Sergeant.....	J. H. Snapp.
Cadet Sergeant	W. Rattenbury.
Cadet Sergeant.....	D. F. Johnson.
Cadet Sergeant.....	O. M. Gates.
Cadet Sergeant.....	A. Dean.
Cadet Corporal	W. E. Pleasants.
Cadet Corporal.....	E. R. Berry.
Cadet Corporal	A. J. Walters.
Cadet Corporal.....	S. Connelly.

COMPANY "D" (COLOR COMPANY).

Cadet Captain.....	J. L. Moore.
Cadet First Lieutenant	W. H. Askew.
Cadet Second Lieutenant	H. R. Brown.
Cadet First Sergeant.....	Wm. P. Johnson.
Cadet Sergeant.....	W. L. Goodwin.
Cadet Sergeant.....	W. V. Boatwright.
Cadet Sergeant.....	W. L. Wright.
Cadet Sergeant.....	T. C. Trimble.
Cadet Corporal.....	Wm. Fletcher.
Cadet Corporal.....	J. R. Smith.
Cadet Corporal.....	L. P. Schindel.
Cadet Corporal.....	H. L. Ross.

SECOND BATTALION.

Cadet Major, Commanding the Battalion.....	E. K. Braly.
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COMPANY "A."

Cadet Captain.....	W. E. Pruett.
Cadet First Lieutenant.....	A. B. Crozier.
Cadet Second Lieutenant	J. R. Howard.
Cadet First Sergeant	F. B. Kirby.
Cadet Sergeant.....	J. H. Blair.
Cadet Sergeant	E. T. Brown.
Cadet Sergeant.....	J. M. Davis.
Cadet Sergeant.....	W. W. Beavers.
Cadet Corporal.....	S. L. Henderson.
Cadet Corporal.....	T. Pace.
Cadet Corporal	B. L. Moore.
Cadet Corporal.....	E. Howell.

COMPANY "E."

Cadet Captain	G. Nicholls.
Cadet First Lieutenant.....	G. H. Askew.
Cadet Second Lieutenant	H. Y. Fishback.
Cadet First Sergeant	J. L. Hornor.
Cadet Sergeant	G. B. Wood.
Cadet Sergeant.....	R. P. Rutherford.
Cadet Sergeant	R. L. Derrick.
Cadet Sergeant	H. A. Patterson.
Cadet Corporal.....	F. N. Johnston.
Cadet Corporal.....	W. H. Crozier.
Cadet Corporal.....	M. Harper.
Cadet Corporal	P. L. Hathcock.

COMPANY "F."

Cadet Captain.....	M. L. Bell.
Cadet First Lieutenant	A. V. Smith.
Cadet Second Lieutenant.....	W. A. Ross.
Cadet First Sergeant	R. W. Huie.
Cadet Sergeant	J. Randolph.
Cadet Sergeant	C. M. Nichol.
Cadet Sergeant.....	F. Horsfall.
Cadet Sergeant.....	D. W. Taylor.
Cadet Corporal.....	A. Vincenheller.
Cadet Corporal.....	H. E. Truelock.
Cadet Corporal.....	R. L. Saxon.
Cadet Corporal	G. C. Abernathy.



DEPARTMENTS OF INSTRUCTION.

The arrangement of elective courses enables students to concentrate their work upon special lines or subjects, and each student is expected to complete the undergraduate studies of at least one language or science. The following rules for elective studies will be observed:

1. No study can be elected unless the professor in charge deems the student prepared to pursue it.

2. No elective study shall be changed before the end of the term.

3. No professor shall be required to teach an elective course unless three or more students pursue it.

DEPARTMENT OF AGRICULTURE.

AGRICULTURE.

R. L. BENNETT, Superintendent of Agriculture.

- | | | |
|----|--|---|
| 1. | <i>Soils</i> | 2 |
| | The physics, water, temperature, drainage, tillage, and management of soils. | |
| | Required of Freshmen in Agricultural Course. | |
| 2. | (a) <i>Farm Crops</i> | 2 |
| | Rotation; grasses; seed varieties; extensive and intensive farming. | |
| | (b) <i>Farm Machinery and Buildings.</i> | |
| | Required of Sophomores in Agricultural Course. | |

The figure on the left is the number of the course; that on the right the number of recitation hours per week.

3. *Breeding Animals*2
 Selection and improvement; breeds; poultry; dairying.
 Required of Juniors in Agricultural Course.
4. *Rural Economics*.....2
 Markets; history of agriculture,
 Required of Seniors in Agricultural Course.

HORTICULTURE.

J. T. STINSON, Horticulturist.

1. (a) *Propagation of Plants*3
 FIRST TERM—General nursery work; grafting, budding, growing, and packing trees and plants for shipment.
 (b) *Vegetable Gardening*.
 SECOND TERM—The study of the leading vegetables for gardens and under glass; forcing of vegetables and general gardening, with practical work in growing vegetables for the market; greenhouse construction.
 Required of Sophomores in Agricultural Course.
2. (a) *Fruit Culture* 3
 FIRST TERM—A study of the leading fruits, including grapes, orchard and small fruits, with methods of cultivating and marketing.
 (b) *Landscape Gardening*.
 SECOND TERM—Landscape Gardening; laying out and planting of grounds; the study of shrubs, flowers, and ornamental trees; practical exercises in laying out and beautifying grounds.
 Required of Juniors in Agricultural Course.
3. (a) *Forestry* 2
 FIRST TERM—Trees for shade, ornament, and shelter; improvement and care of forests; influence of forests on soil and climate.
 (b) *Plant Breeding*
 SECOND TERM—Crossing of plants; originating new varieties; plant variation.
 Required of Seniors in Agricultural Course.

AGRICULTURAL CHEMISTRY AND METEOROLOGY.

G. L. TELLER, Chemist.

1. *Agricultural Chemistry* 3
Lectures and recitations on the chemistry of plant nutrition and growth, soils, manures, foods, and feeding and dairy products.
Required of Sophomores in Agricultural Course.
2. *Meteorology* 3
A study of winds, storms, rainfall, and changes of temperature in soils and air; weather forecasts; relation of weather and climate to plant growth and preservation. Opportunities will be given for the students to become familiar with the instruments used in making and recording weather observations.
Required of Seniors in Agricultural Course.

ANIMAL PATHOLOGY AND BACTERIOLOGY.

R. R. DINWIDDIE, Pathologist and Bacteriologist.

1. (a) *Anatomy and Physiology of Domestic Animals* 3
Outlines of equine anatomy, with a comparative study of the anatomy of other species of farm animals; dissection of one of the smaller quadrupeds.
(b) *The Physiology of Animal Nutrition and Reproduction.*
These subjects are studied with special regard to their bearing on the intelligent and scientific feeding, breeding, and care of live stock on the farm.
Required of Juniors in Agricultural Course.
2. (a) *Bacteriology and Hygiene* 3
A study of bacteria and their relation (1) to soils and plant growth; (2) to dairying and the handling of milk; (3) to animal and vegetable pathology; laboratory work in bacteriology.
(b) *Farm and Stable Hygiene.*
The causes and prevention of parasitic and communicable diseases.
Required of Seniors in Agricultural Course.

Electives.—Juniors and Seniors may elect for special study, any subject in which they are most interested. Either German or French may be elected.

ANCIENT LANGUAGES.

J. C. FUTRALL, Professor.

E. F. SHANNON, Associate Professor.

In this department the following courses are offered :

LATIN.

1. *Sallust, Cicero, and Virgil* 3
An accurate knowledge of the Latin forms is insisted upon; exercises in prose composition taken from Collar's Practical Latin Composition; Roman History.
Associate Professor Shannon.
Required of Freshmen in Arts.
2. *Livy, Cicero, and Horace* 3
Systematic study of the grammar; exercises in prose composition, based chiefly upon the authors read in class; the metres of Horace; sight reading; Roman literature.
Professor Futrall.
Required of Sophomores in Courses I. and II.
3. *Tacitus and Roman Life in Latin Prose and Verse, by Peck and Arrowsmith*..... 2
Designed to give to those students who do not propose to take Courses 4 and 6 a better reading knowledge of the language than can be attained by the completion of Course 2; sight reading.
Associate Professor Shannon.
Elective for students who have completed Course 2.
4. *Livy, Cicero, and Tacitus* 2
Large amounts of each author read in class; parallel reading assigned; study of the grammar continued; Roman Literature.
Professor Futrall.
Required of Juniors in Course I.

5. *Sight Reading and Prose Composition* 2

A play of Plautus will be read at sight. The exercises in prose composition will be based chiefly on the authors read in Course 3.

Professor Futrall.

Required of Juniors in Course I.

6. *Juvenal, Catullus, Terence, and Horace* ... 2

As much of each author as possible will be read in class, and a large amount of parallel reading will be assigned.

Professor Futrall.

Elective for students who have completed Course 4.

7. *Sight Reading and Prose Composition* 1

Professor Futrall.

Required of Seniors in Course I. who elect Course 6.

Text-books: Bennett's and Gildersleeve's Grammars; Liddell's History of Rome; Bender's Roman Literature; Crutwell's Roman Literature. Any approved edition of the Latin authors may be used, except when certain editions are prescribed.

GREEK.

1. *Elementary Course* 4

White's Beginner's Greek Book, with selections for reading. A thorough mastery of the forms and constructions given in this book is required.

Associate Professor Shannon.

Required of Freshmen in Course I.

2. *Xenophon and Lysias* 3

This course is intended to familiarize the student with all the ordinary Attic forms and constructions; frequent exercises in oral and written translation of English into Greek, based upon the text read, are given, and some practice in sight reading; Goodwin's Grammar.

Professor Futrall.

Required of Sophomores in Course I.

3. *Homer, Herodotus and Thucydides* 3

Systematic study of the grammar; exercises for translation into Greek, prepared by the professor; sight reading.

Associate Professor Shannon.

Required of Juniors in Course I.

4. *Plato, Sophocles and Aristophanes*..... 3

One dialogue of Plato; one play each of Sophocles and Aristophanes; Goodwin's Greek Moods and Tenses.

Professor Futrall.

Elective for students who have completed Course 3.

Text-books: Goodwin's Revised Greek Grammar; Goodwin's Greek Moods and Tenses; Collar and Daniell's Prose Composition, based on Xenophon's Anabasis; any approved edition of the Greek authors may be used, except when certain editions are prescribed.

BIOLOGY.

PROFESSOR MCNEILL.

BIOLOGY.

1. *General Biology*..... 3

Recitations twice, and laboratory two hours per week. A brief study of typical plants and animals with reference to structure, development and relationship. This course is introductory to both Botany and Zoölogy. Text-books: Parker's Biology; laboratory manual, Boyer's Practical Biology.

Required of Freshmen in Course VI., and of Seniors in Course VII.

BOTANY.

1. *Systematic Botany*..... 3

One lecture a week for the first half of the first term, with four hours of laboratory work. Six hours a week laboratory work from March 1 to the end of the term. Designed to give students a general knowledge of the classification of plants and a more particular acquaintance with the seed plants and ferns of Northwest Arkansas. Text-book: Gray's Manual of Botany.

Required of Sophomores in Course VI., and of Freshmen in Normal Course.

2. *Physiological Botany*..... 3

Laboratory work six hours a week from November 15 to March 1.

Text-book: MacDougal.

Required of Sophomores in Course VI.

3. *Bacteriology*..... 5
 Ten hours a week laboratory work for the first term. Text-book: Hueppe's Methods of Bacteriological Investigations. Elective for students who have passed 1 and 2.

ZOOLOGY.

1. *General Zoology*..... 3
 One recitation and four hours laboratory work per week. A general course in animal morphology and systematic zoölogy. The systematic work will be restricted to vertebrates. Text-book: Hertwig's Essentials of Zoölogy. Laboratory Guide: Jordan's Manual of Vertebrates. Required of Sophomores in Course VI., and of Sophomores in Normal Course.
2. *Vertebrate Anatomy*..... 3
 Recitations twice per week and dissection of typical vertebrates. Text-book: Weidersheim's Anatomy of Vertebrates. Required of Juniors in Course VI.
3. *Neurology*.
 Lectures twice a week, second term, second half. Required of Juniors whose course requires psychology.
4. *Animal Histology*..... 5
 Two recitations and eight hours in the laboratory per week, first term. Open only to students who have taken Course 2. Text-book: Schafer's Essentials of Histology. Required of Seniors in Course VI. Offered only in even years.
5. *Embryology*..... 5
 Recitations twice, and laboratory work six hours a week, second term. Open only to students who have taken Course 4. Text-book: Foster and Balfour's Elements of Embryology. Required of Seniors in Course VI. Offered only in odd years.

ENTOMOLOGY.

1. *General Entomology*..... 5
 Recitations twice, laboratory work two hours per week. Designed to give a general knowledge of the structure, habits and classification of insects and a more particular knowledge of the orders Orthoptera and Lepidoptera. Text-book:

Comstock's Laboratory Guide; French's Butterflies of the Eastern United States, and other manuals.

Professor McNeill.

Required of Juniors in Course VI.

2. *Economic Entomology*..... 3

This course is a continuation of 1, and must follow it. The systematic work for each student will be restricted to one order or family of which he will be expected to make a special study. Special attention will be given to breeding and rearing of insects and to working out the life histories of those species that are little known.

Required of Seniors in Course VI.

CHEMISTRY AND PHYSICS.

A. E. MENKE, Professor.

W. B. BENTLEY, Associate Professor.

1. *General Inorganic Chemistry*..... 3

Lectures and recitations twice a week; laboratory work one afternoon throughout the year. Text-book: Richter.

Professor Menke.

Required of Freshmen in Course V., of Freshmen in Engineering Courses; of Sophomores in Courses VI. and VII.; alternative with Physics 1 for Sophomores in Courses II. and IV.

2. *Chemical Philosophy*..... 2

Twice per week, second term. This course supplements the instruction in theoretical chemistry given in Course 2. Text-book: Tilden's Introduction to Chemical Philosophy. Reference books: Oswald's General Chemistry and Meyer's Theoretical Chemistry.

Associate Professor Bentley.

Required of Sophomores in Course V.

3. *Qualitative Analysis*.

(a) Recitations twice per week, first term. (b) Laboratory work two afternoons per week for engineering students, three afternoons for scientific students throughout the year. The recitations are occupied with the discussion of problems depending on the principles of qualitative analysis. The object of these discussions is to enable the student to understand the

methods of separation as well as to be able to follow them practically. In the laboratory a large number of substances, both simple and complex, are analyzed. Laboratory Manual: Hill's Lecture Notes on Qualitative Analysis.

Associate Professor Bentley.

Required of Sophomores in Course V., and of Juniors in Course VII.

4. *Organic Chemistry* 3

Recitations three times per week throughout the year with laboratory work, if desired. Bernthsen's Organic Chemistry.

Associate Professor Bentley.

Required of Juniors in Course V.

5. *Quantitative Analysis* 4

Laboratory work four afternoons per week. Practice in gravimetric and volumetric analysis. Manual: Thorp.

Associate Professor Bentley.

Required of Juniors in Course V.

6. *Quantitative Analysis* 4

Second Course. Analysis of agricultural and food products. First term.

Professor Menke.

Required of Seniors in Course V.

7. *Technical Chemistry* 3

Three times per week throughout the year. A study of industries having chemical principles and processes for a basis. Manuals: Wagner, Sadtler.

Associate Professor Bentley.

Required of Seniors in Course V., and of Seniors in Mechanical Engineering.

8. *Physical Chemistry* 3

Chiefly laboratory work; determination of molecular weights according to the various methods in common use; thermochemical work, measurement of electric conductivity of electrolytes; practice with polariscope, refractometer, etc.

Associate Professor Bentley.

Elective.

9. *Assaying* 4

Class meets at convenience of the instructor. Preparing and testing reagents, making cupels, etc., and assaying samples of furnace and mill products. Second term.

Professor Menke.

Required of Seniors in Course V.

10. *Toxicology* I
 Once a week throughout the year. A working knowledge of qualitative and quantitative analysis is a condition requisite for admission to this class.
Professor Menke.
 Elective.
11. *Gas Analysis*..... I
 Practical work once a week throughout the year. This course is designed particularly for technical students.
Professor Menke.
 Elective.
12. *Metallurgy of Iron and Steel*..... 3
 Three times per week the first term.
Professor Menke.
 Required of Seniors in Electrical Engineering.

PHYSICS.

1. *General Physics* 3
 Recitations twice and laboratory work once per week throughout the year. Recitations and experimental lectures on mechanics, sound, heat, light, magnetism and electricity.
Professor Menke.
 Required of Freshmen in Courses V. and VI., and of Freshmen in Engineering; of Sophomores in Course III., and in Normal Course; alternative with Chemistry in Courses II. and IV.
2. *Electricity and Magnetism*..... 3
 Recitations twice and laboratory work once per week throughout the year. Text-book: Silvanus Thomson's Electricity and Magnetism.
Professor Menke.
 Required of Sophomores in Engineering Courses.
3. *Physical Measurements*..... 2
 Measurements in mechanics, sound, heat, light, magnetism and electricity. Manual: Sabine.
Associate Professor Bentley.
 Required of Sophomores in Engineering Courses.

ELECTRICAL ENGINEERING.

W. N. GLADSON, Associate Professor.

1. *Practical Management of Dynamos and Motors* 2
 Recitations. Second term, two hours a week. A practical treatise on installing, starting, testing, locating and remedying faults in dynamos and motors. A practical laboratory guide. Text-book: Crocker & Wheeler's Practical Management of Dynamos and Motors.
 Required of Second Year students in short course in Electrical Engineering.
2. *Contracts and Specifications* 1
 One hour a week, second term. A study of contracts as applied to engineering work; specifications for electrical installations. Text-book: Merrit's Electric Light Specifications.
 Required of Seniors and Second Year students in Electrical Engineering.
3. *Technical Drawing* 2
 Lectures and practice two afternoons a week throughout the year. Working drawings of electrical apparatus; wiring plans designed by student.
 Required of Juniors in the full course, and Second Year students in short course in Electrical Engineering.
4. *Technical Drawing* 2
 Lectures and practice two hours a week throughout the year; extension of Course 3. Drawings of circuit and machine; electrical calculations and mechanical designs of electrical machinery; complete power plants designed by student.
 Required of Seniors in Electrical Engineering.
5. *Electrical Laboratory* 1
 One afternoon a week throughout the year. An extended course in magnetic and electrical measurements; current, electro-motive force, and resistance; use and calibration of instruments, voltmeters, and potentiometers; exploration of magnetic fields; dynamo work begun.
 Required of Juniors in full course and of Second Year students in short course in Electrical Engineering.
6. *Electrical Laboratory* 2
 Four hours a week throughout the year. This is an extension of Course 5, and must be preceded by it. A full experimental

course in operating and testing direct and alternate current machines; transmission, storage, and transformation of electric energy. Special courses given suited to the preparation and object of the student.

Required of Seniors in Electrical Engineering.

7. *Dynamo Electrical Machinery* 5

Recitations. First term, five hours a week. Confined chiefly to direct current apparatus, including types of motors, generators, and transformers; design, calculations, construction, testing, and operating. Text-book: Thompson's *Dynamo Electric Machinery*.

Required of Juniors in the full course and of Second Year students in the short course in Electrical Engineering, and of Juniors in Mechanical Engineering.

8. *Theory of Alternate Currents* 2

Recitations twice a week throughout the year. Text-book: Flemming's *Alternate Current Transformer*, Volume I.

Required of Juniors second term, and of Seniors first term, in Electrical Engineering.

9. *Alternate Current Machinery* 3

Recitations and lectures three times a week, second term. Text-book: Flemming's *Alternate Current Transformer*, Volume II.

Required of Seniors in Electrical Engineering.

10. *Electric Railways* 2

Recitations and lectures twice a week, second term.

Required of Seniors in the full course and of Second Year students in short course in Electrical Engineering.

11. *Telephony and Telegraphy* 2

Lectures and recitations twice a week, second term. Text-book: Preece's *Telephone*.

Required of Seniors in Electrical Engineering.

12. *Electrical Measurements* 2

Recitations and practice twice a week, first term. Text-book: *Electrical Measurements* by Carhart and Patterson.

Required of Seniors in Electrical Engineering.

13. *Electrical Design* 1

Lectures and practice once a week, first term.

Required of Seniors in Electrical Engineering.

14. *Photometry* I

Lectures, recitations, and practice, once a week during the second term.

Required of Seniors in Electrical Engineering.

ELOCUTION.

JESSIE L. CRAVENS, Instructor.

The course of instruction comprises a thorough training in the essentials of expression.

1. *Physical Training.*

The course includes thorough drill in (a) Light Gymnastics, to promote health and to give vigor and tone; (b) Athletic Gymnastics (in accordance with the law of Delsarte). for the attainment of grace, precision, and harmony, in action.

2. *Voice Culture.*

(a) Respiration: Natural breathing; economy of breath; drill in deep, effusive, expulsive, and explosive forms, as a basis for voice work.

(b) Voice culture: Exercises for the production and cultivation of open, pleasing, and musical tones; to avoid shrill and loud tones.

(c) Articulation: Correct use of the articulatory organs; exercises upon elementary sounds, separately and in combination; syllabication, accent, and pronunciation; defects of speech.

3. *Expression.*

In Reading, Recitation, and Oratory. Modulation, inflection, emphasis, pitch, quantity and movement; qualities; application of tone effects; light and shade in tone; transitions; pause effects; facial expression; action and repose; naturalness; clearness.

Text-books: The books in use and for reference are Southwick's Elocution and Action, Stebbins' System of Expression; Fulton and Trueblood's Practical Elocution, Hudson's Shakespeare, Werner's Readings and Recitations, etc.

This department is open to all students in the Collegiate classes and to the second year students of the preparatory school. Twice a week for each class.

ENGLISH AND MODERN LANGUAGES.

R. H. WILLIS, Professor.

IDA PACE, Associate Professor.

CLARA EARLE, Instructor.

ENGLISH.

1. *English Language and Literature* 3

(a) Meiklejohn's English Language; eight essays (chiefly narrative and descriptive) criticised and corrected by the instructor and copied by the student; thorough drill in English metres. For reference: Baskerville and Sewell's Grammar, Lounsbury's History of the English Language. *Twice a week.*

(b) Meiklejohn's History of English Literature, with extensive parallel readings from more than twenty leading authors, and reports on same in class. For reference: Pancoast's English Literature, Shaw and others. *Once a week.*

Miss Pace and Miss Earle.

Required of all Freshmen.

2. *Prose Style and American Literature*..... 3

(a) Study of standard prose, with rhetorical analysis and criticism. For 1897-98 the selections are from Hawthorne, Thackeray, Macaulay, DeQuincey, Scott, Johnson, Steele, Milton; three essays. Text-books: Garnett's English Prose and other texts, with the instructor's notes. For topical study: Genung's Rhetoric. For reference: Minto, Pancoast, Shaw and others. *Twice a week.*

(b) Watkins' American Literature, with parallel readings from leading American authors, and class reports. For reference: Hawthorne and Lemon, Manly, Richardson. *Once a week.*

Miss Pace.

[In 1898-99 the prose selections for (a) will be from Irving, Ruskin, Carlyle, Burke, Goldsmith, Swift, Addison, Bacon. This part of Course 2 may be taken for two consecutive years.]

Required of Sophomores in Courses I., II., III., IV., VII., in Electrical Engineering, and in Normal Course.

3. (a) *The Classic School of Poets* .. 2

FIRST TERM—A critical study of representative poets (especially Dryden, Pope, and Gray) and of their master-

pieces, with parallel readings, reports in class, and essays. Text-books: Gosse's *Literature of the Eighteenth Century*, and topical studies from Hazlitt, Lowell, Taine, Ward, and others; critical editions of Dryden, Pope, Gray, and of other writers of this school.

Miss Pace.

[In 1898-99 *Victorian Literature*. Course 3 may be taken for two consecutive years.]

Required of Juniors in Course II.

3. *(b) Poets of the Romantic Movement*..... 2

SECOND TERM—Critical study of masterpieces, with reference to the characteristics of the romantic school and the causes which produced it; parallel readings, reports, and essays. Text-books: Gosse's *Eighteenth Century*; Oliphant's *Eighteenth and Nineteenth Centuries*; topics from Carlyle, Hazlitt, Saintsbury, Shairp, and others; critical editions of Cowper, Burns, Coleridge, Scott, Byron, and other romantic writers.

Miss Pace.

[In 1898-99 *American Writers*. Course 3 may be taken for two consecutive years.]

Required of Juniors in Course II.

4. *Middle English and Early Modern English*.....2

Literary history of period from Chaucer to Milton; reading of representative authors with historical, philological and literary criticism; three essays. Morris' *Chaucer*, Percival's *Spencer*, Cook's or Sprague's *Milton*, Sprague's plays of Shakespeare and the Arden edition, parallel readings from these authors. For reference: Bucknell, Coleridge, Dowden, Gervinus, Hazlitt, Hudson, Pollard, Saintsbury, Ulrici, and others.

Professor Willis.

Required of Juniors in Courses II. and IV.

5. *Anglo-Saxon and Middle English*..... 3

Readings from the Anglo-Saxon Gospels and Chronicles; selections from Alfred, Aelfric, Cædmon and later writers. Bright's *Anglo-Saxon Grammar and Reader* (120 pages translated); Morris's *Specimens of Early English*, Part I; Ten Brink's *Old English Literature* (selections). For reference: Cook's *First Book in Old English*, Cook's *Sievers' Grammar of Old English*, March's *Anglo-Saxon Grammar* (syntax),

Skeat's Etymological Dictionary, Brooke's Early English Literature.

Professor Willis.

Required of Seniors in Course II.

6. *English Philology* 1
 Champneys' English Language with parallel readings and lectures. For reference and topical study: Skeat's Principles of English Etymology, Sweet's Grammar (historical part), Earle, Emerson, Henry, Morris, Peile and others.

Professor Willis.

Required of Seniors in Courses I., II., and IV.

GERMAN.

1. *Modern German, Elementary* 3
 Thomas's Grammar with composition; Brandt's Reader (160 pages); three lyric gems memorized.

Professor Willis.

Required of Juniors in Courses II. and III.; alternative with French or Spanish in other courses. Students are advised not to elect this course unless they intend to take another year of German.

2. *Schiller and Recent Authors* 3
 Schiller's Maria Stuart; Heine's Harzreise; Heyse's L'Arabiata; Hillern's Höher als die Kirche; Bernhardt's Deutsche Litteraturgeschichte; grammar and composition continued; original composition.

Miss Pace.

Required of Seniors in Course II.

3. *Lessing and Goethe* 2
 Lessing's Miuna von Barnhelm; Goethe's Meisterwerke. For reference in 2 and 3: Scherer's German Literature; Whitney's and Brandt's Grammars; Behaghel's Historical Grammar; Jagemann's Syntax. Dictionaries: Fluegel, Thieme-Preusser, Classic, Heath, or Adler (Quarto).

Professor Willis.

Required of Seniors in Course II.

4. *German at Sight and Conversation* 2
 Meissner's Aus Meiner Welt; Leander's Träumereien; Benedix's Plautus and Terence, and Sonntagsjäger; Riehl's Burg Neideck; Worman's First and Second Books.

Professor Willis.

Required of Seniors in Course II.

5. *Scientific German*. I

Dippold's Scientific German Reader and other selections from German scientists.

Miss Pace.

Elective for Scientific Students.

NOTE. — 2, 3 and 4 have different readings in 1898-99, and each may be taken for two consecutive year .

FRENCH.

1. *Modern French, Elementary*. 3

Edgren's Grammar with composition; Rollins's Reader, containing simple prose tales, some extended selections from recent French authors, and a few lyrics from Victor Hugo, Béranger, Gautier, and other poets.

Miss Earle.

Required of Freshmen in Courses II. and III.

2. *Nineteenth Century Literature* 2

Merimés's *Chronique de Charles IX.*; Labiche et Martin's *Voyage de M. Perrichon*; Erckmann-Chatrian's *Waterloo*; Victor Hugo's *La Chute*; Duval's *Littérature Française*; grammar and composition continued. For reference in 2 and 3: Whitney's *Grammar*; Harrison's *French Syntax*; Brachet's *Historical Grammar*; Saintsbury's *History of French Literature* and other larger works. Dictionaries: Spier's and Surenne's *Quarto*, Heath's, *The Classic*.

Miss Earle.

Required of Sophomores in Course II.

3. *The French Classic Drama* 3

Critical study of representative authors; Corneille's *Cinna*; Racine's *Andromaque*; Molière's *Les Femmes Savantes* and *Le Malade Imaginaire*; grammar and composition continued; original composition; Duval's *Littérature*.

Miss Pace.

Required of Juniors in Course II.

4. *French at Sight and Conversation* 2

Jules Verne's *Expédition de la Jeune Hardi*; Legouvé et Labiche's *Cigale chez les Fourmis*; Gautier's *Voyage en Espagne*; De Vigny's *Le Cachet Rouge*; Fontaine's *Lecture et Conversation*.

Miss Pace.

Required of Sophomores in Course II.

5. *Scientific French* I

Herdler's Scientific French Reader and other selections from French scientists.

Miss Earle.

For Sophomores or Juniors in Science.

NOTE—2, 3 and 4 have different readings in 1897-98, and each may be taken for two consecutive years.

SPANISH.

1. *Modern Spanish, Elementary* 3

Edgren's Spanish Grammar with composition; Worman's First Spanish Book; Knapp's Spanish Readings, containing extracts from Fernan Caballero, Selgas, Lafuente, Valera and other authors.

Professor ———.

Elective for Sophomores.

Allowed as a substitute for French 3. Ordinarily this class will not be formed for less than five students.

2. *The Spanish Classic Writers* 3

Selections from Don Quixote; Lope's La Discreta Enamorada; Calderon's La Vida es Sueño, and El Alcalde de Zalamea; Conant's Spanish Literature; grammar and original composition. For reference: Knapp's Grammar; Sismondi's Literature; Clarke's Spanish Literature; Velasquez's Quarto Dictionary.

Professor Willis.

Elective for students who have passed Spanish 1.

3. *Spanish at Sight and Conversation* 2

Valera's El Pajaro Verde; Larra's Partir á Tiempo; Moreto's El Desden con El Desden; Herrero's La Independencia; Worman's Second Book.

Professor Willis.

Required with Spanish 2.

ITALIAN.

1. *Elementary Course* 3

Grandgent's Grammar with composition; Italian Principia II (readings from standard authors selected for beginners); Sonzogno's Letteratura Italiana.

Allowed as a substitute for French 3, but will not be taught for less than five students.

2. *Advanced Course* 3
 Nota's *La Fiera*; Ongaro's *Rosa dell' Alpi*; De Amicis' *Camilla*; Tasso's *Gerusalemme Liberata*; grammar and composition continued. For reference: Cuore's *Grammar*; Sismondi's *Literature*. Dictionary: Millhouse or Barette.
 Elective for students who have passed Italian 1.

GEOLOGY.

A. H. PURDUE, Associate Professor.

In arranging the courses in Geology, an attempt has been made to meet the needs of those students who wish to become well grounded in the elements of both the scientific and the practical phases of the subject, and at the same time of those who wish only a brief general culture course. The course meeting the latter need is number 2. While the other courses are offered specially for those making Geology a major, they can be taken with advantage by any one who has had Course 2.

1. *Physiography* 2
 Recitations two hours a week through the year, with special attention to Meteorology. Texts: Tarr, Waldo, Ferrel, and others.
 Required of Freshmen in Course VII.
2. *General Geology* 3
 Recitations and lectures three times a week during the first term. Structural, Dynamic, and Surface Geology. Text: Geikie's *Class Book of Geology*.
 Required of Juniors in Course VI. and in Civil Engineering, and of Sophomores in Course VII.
3. *Continental Evolution* 3
 Twelve lectures, three hours a week during the second term, on the evolution of the North American continent, to be followed by Course 4. Open to all students who have had Course 2.
 Required of Juniors in Course VI., and of Sophomores in Course VII.

4. *Economic Geology* 3
Lectures three times a week, following Course 3, on the formation, occurrence, uses, and geographic distribution of ore deposits. Open to all students who have had Course 2. Required of Juniors in Course VI., and of Sophomores in Course VII.
5. *Practical Geology* 1
Field and laboratory work two hours a week throughout the year, with the construction of geological maps and sections, topographic maps, and relief maps.
Required of Juniors in Course VII., and in Civil Engineering.
6. *Paleontology* 2
Laboratory work, two to four hours a week throughout the year, on the determination of fossil organisms.
Required of Juniors in Course VII.
7. *Crystallography and Mineralogy* 2
(a) Lecture two hours a week during the first term on the elements of Geometrical Crystallography. Text: Williams' Elements of Crystallography.
(b) Laboratory work (two hours) twice a week during the second term. Determination of minerals before the blowpipe, and in the wet way. Text: Determinative Mineralogy, Brush.
Required of Seniors in Course VII., and in Civil Engineering.
8. *Field and Special Courses.*
Students electing Geology as a major will be expected to spend sufficient time in the field for the careful investigation of local geological problems, and to present acceptable theses on the work done. It is advised that the field work be done in connection with the University Geological and Biological Survey. (See page 31.) Special courses will be arranged for those who wish to elect work in addition to what is required.
Required of Seniors in Course VII.

HISTORY AND PEDAGOGICS.

J. F. HOWELL, Professor.

HISTORY.

1. *Constitutional History* 2
Text-book: Fiske's Civil Government; lectures and reading.
Required of Freshmen in Course IV., and in the Normal Course.

2. *General History* 3
Text-book: Myer's General History; collateral reading.
Required of Sophomores in Courses II., IV., and VI., and in the Normal Course.
3. *English History* I
Text-book: Montgomery's English History.
Required of Sophomores in Courses II. and IV., and of Freshmen in Courses II. and III.
4. *Ancient History* 2
In the light of recent discoveries and investigations; Egypt and Israel; Greece and Rome. Lectures and recitations on assigned topics.
Required of Juniors in Course IV.
5. *Ecclesiastical History* 2
Outlines of church history from the rise of Christianity to the present time; lectures and recitations on assigned reading.
Elective for Seniors and Juniors who have passed in Course II.
6. *European History* 2
From the fall of Rome to the present time. Lectures, recitations on assigned reading, and topical research. Text-book, first term: Emerton's Introduction to the Middle Ages.
Elective for Seniors and Juniors who have passed in 2; required of Seniors in Course IV.
7. *American History* 2
From the earliest explorations to the present time. Lectures, recitations on assigned periods, and topical research.
Required of Seniors in Course IV.

PEDAGOGICS.

1. *Pedagogy* 2
Text-book: White's Elements of Pedagogy, with lectures and collateral reading; methods.
Required of Freshmen in the Normal Course.
2. *School Management* 3
Three times a week first term. Text-book: Tompkin's School Management, and collateral reading.
Required of Sophomores in Normal Course.

3. *History of Education* 2
Twice a week, second term. Text-book: Painter's History of Education, with collateral reading.
Required of Sophomores in the Normal Course.
4. *School Law* I
Once a week, second term. Decisions of State Supreme Courts on questions relating to the rights and duties of school officers, parents and children; the School Laws of Arkansas. Text-books: Burke, The Law of Public Schools, and the text of the Arkansas school laws.
Required of Sophomores in the Normal Course.
5. *Science of Education* 2
Twice a week, first term. Text-book: Palmer's Science of Education.
Elective for Juniors and Seniors.
6. *Philosophy of Education* 2
Twice a week, second term. Text-book: Rosenkranz's Philosophy of Education.
Elective for Juniors and Seniors.

MATHEMATICS, ASTRONOMY AND LOGIC.

HARRISON RANDOLPH, Professor.

G. W. DROKE, Associate Professor.

The following courses of instruction are offered by the Mathematical Department :

I. ELEMENTARY MATHEMATICS.

1. *Algebra* 2
Beginning with simultaneous quadratic equations, through theory of logarithms, binomial theorem, indeterminate coefficients and theory of numbers. Text-book: Wentworth's Higher Algebra.

Professor Randolph,
Associate Professor Droke.

Required of all Freshmen.

2. *Plane and Solid Geometry, Elementary Trigonometry* 3

A large proportion of the time is devoted to geometrical analysis, with exercises for original solution. Text-books: Wentworth's Geometry, Bowser's Trigonometry.

Professor Randolph,
Associate Professor Droke.

Required of all Freshmen.

II. ELEMENTARY MATHEMATICS.

3. *Plane and Spherical Trigonometry, Analytic Geometry of Two Dimensions* 5

FIRST TERM—Text-books: Bowser's Trigonometry, Puckle's Conic Sections.

Professor Randolph.

Required of Sophomores in Course III., and of Sophomore Engineering students.

4. *Analytic Geometry of Two Dimensions, Differential Calculus* 5

SECOND TERM—Text-books: Puckle's Conic Sections, Osborne's Calculus.

Professor Randolph.

Required of Sophomores in Course III., and of Sophomore Engineering students.

III. INTRODUCTORY TO HIGHER MATHEMATICS.

5. *Differential and Integral Calculus*..... 3

An elaborate study of the differential and integral calculus, with applications to problems of geometry and mechanics, based on Todhunter's Treatises on Differential and Integral Calculus.

Associate Professor Droke.

Required of Juniors in Course III., and of Junior Engineering students.

6. *Determinants and Higher Algebra* 2

FIRST TERM—Peck's Determinants.

Associate Professor Droke.

Required of Juniors in Course III.

7. *Differential Equations* 2

SECOND TERM—Osborne's Differential Equations, supplemented by lectures.

Professor Randolph.

Required of Juniors in Course III.

IV. SENIOR COURSES.

8. *Analytic Geometry of Three Dimensions* 4

FIRST TERM—C. Smith's Solid Geometry.

Professor Randolph.

Required of Seniors in Course III.

9. *Theory of Equations. Differential Equations*.... 4SECOND TERM—Burnside and Panton's Theory of Equations,
Johnson's Ordinary and Partial Differential Equations.*Professor Randolph.*

Required of Seniors in Course III.

V. ADVANCED COURSES.

10. *Theory of Surfaces.*This course is a continuation of Course 8. General theory
of twisted curves and surfaces, including curvature, lines of
curvature and allied subjects in differential geometry.*Professor Randolph.*11. *Modern Synthetic Geometry.*

For reference: Richardson and Ramsey.

Associate Professor Droke.

Elective.

12. *Differential Equations.*This course is a continuation of Course 9. For reference:
Forsyth's Differential Equations.*Professor Randolph.*13. *Modern Analytic Geometry.*

Elective.

*Associate Professor Droke.*14. *Theory of Substitutions.**Professor Randolph.*15. *Analytical Mechanics.*Statics, dynamics, and elements of the theory of the potential.
Routh's Analytical Statics, Vols. I and II. Williamson's
Dynamics. Prerequisite: Analytical Geometry and a thor-

ough knowledge of Differential and Integral Calculus; *i. e.*
Courses 4, 5, and 8.

Professor Randolph.

ASTRONOMY.

- I. *Descriptive Astronomy* 3

SECOND TERM—Text-book: Young.

Associate Professor Droke.

Elective.

LOGIC.

- I. *Deductive and Inductive Logic* 2

FIRST TERM—Text-books: Davis' Elements of Deductive
Logic, and Elements of Inductive Logic.

Professor Randolph.

Required of Juniors in Course IV.

MECHANICAL AND CIVIL ENGINEERING.

GEORGE M. PEEK, Mechanical Engineering, Superintendent
Mechanic Arts.

J. J. KNOCH, Civil Engineering.

MACK MARTIN, Machine Shop. Assistant Superintendent
Mechanic Arts.

B. N. WILSON, Wood Shop.

———, Forging and Founding.

C. S. DUGGANS, Engineer.

MECHANICAL ENGINEERING. (M. E.)

- I. *Shop Work.*

(a): *Woodworking.* Principles of carpentry and joinery;
wood turning; pattern making; cabinet work. Sickles' exer-
cises in wood turning. One year, eight hours per week.

Mr. Wilson.

(b): *Founding.* Moulding; melting and pouring brass and
iron; management of cupola. Bolland's Iron Founding.
Half year, eight hours per week.

Mr. —————

(c): *Forging.* Management of fire; drawing; welding;
riveting and tempering. Half year, eight hours per week.

Mr. —————

(d): *Machinist Work*. Chipping and filing; turning; planing; milling; drilling; grinding; erection of machinery and mill-wrighting. Rose's Complete Practical Machinist. One year, eight hours per week.

Mr. Martin.

(e): *Stationary Engineering*. Steam fitting; cleaning and firing boilers; management of high speed and Corliss engines. Half year, four hours per week.

Mr. Duggans.

2. *Mechanical Drawing*.

(a): *Freehand*. Outline drawing from models and machine parts; plans, elevations, sections, lettering, etc. One year, two hours per week.

Mr. Wilson.

(b): *Instruments*. Use and care of instruments; copying drawings; making sketches of parts of machinery and making drawings from the sketches. One year, two hours per week.

Mr. Wilson.

(c): *Practical Drawing*. Working drawings; titles; tracing; preparing and using blue-print paper. One year, four hours per week.

Mr. Wilson.

3. *Instrumental Drawing* 2

Drawing of geometrical problems, machine parts, line shading, etc. One year, four hours per week.

Mr. —————

4. *Elements of Mechanism*..... 2

Two hours per week, first term. Theory of motion and velocity ratios; designs of gear wheels, cams, link motions, trains of mechanism. Text-book: Stahl and Wood's Elements of Mechanism.

Professor Peek.

Required of Juniors in Mechanical and Electrical Engineering.

5. *Valve Gears* 3

Three hours per week, part of first term. An analytical and graphical treatment of the plain slide valve, shifting eccentrics, link motions, radial, double and drop cut-off valve gears. Text-book: Peabody's Valve Gears.

Professor Peek.

Required of Juniors in Mechanical Engineering.

6. *Indicator Practice* 3
 Methods of using the steam engine indicator in determining horse power, setting valves and adjusting the governors. Three hours per week part of first term.
Professor Peek.
 Required of Juniors in Mechanical Engineering.
7. *Drawing: Machine Design*..... 2
 A practical study of velocity ratios in mechanism, gears, cams, link work, fastenings, belt and rope gearing. Four hours a week through the year.
Professor Peek.
 Required of Juniors in Mechanical Engineering.
8. *Drawing: Steam Engine and Boiler Design*.....2
 A course in the study and design of boilers and steam engine parts, such as pistons, cross-heads, frames, main bearings, fly wheels, valve gears and governors. Through the year.
Professor Peek.
 Required of Seniors in Mechanical Engineering.
9. *Steam Engine Design* 3
 Three hours per week part of first term. Determination of the proper proportions for cylinders, valves, pistons, rods, shafts, fly wheels, governors, etc.
Professor Peek.
 Required of Seniors in Mechanical Engineering.
10. *Mechanical Laboratory* 2
 Study of processes of blue printing and photography; gas analysis; calorific power of fuels; friction of belting; tests of lubricants; calibration of thermometers, gauges and indicators; planimeters and indicator cards. Engine and boiler trials.
Professor Peek.
 Required of Juniors in Mechanical Engineering.
11. *Steam Engineering*... 3
 Three times a week, second term. Elementary thermodynamics; types of simple and compound engines; valve diagrams and indicator cards; heat and combustion of fuels; types and care of boilers. Text, Whitham.
Professor Peek.
 Required of Juniors in Engineering Courses.

12. *Statics and Dynamics* 4

Four hours per week part of second term. Forces; statics of a material point, of a rigid body, of a flexible cord; motion of a material point; moment of inertia; dynamics of a rigid body; work, energy and power; friction. Text-book: Church's Mechanics of Engineering.

Professor Peek.

Required of Juniors in Engineering Courses.

13. *Strength of Materials* 4

Four hours per week, part of first and second terms. Elementary stresses and strains, tension, compression, shearing, torsion, flexure of homogeneous prisms, continuous girders; flexure of long columns. Text-book: Church's Mechanics of Engineering.

Professor Peek.

Required of Seniors and Juniors in Engineering Courses.

14. *Hydraulics* 4

Four hours per week, first term. Fluid pressure; pressure in tanks and reservoirs; flotation; gaseous fluids; flow of liquids through pipes and orifices; dynamics of gaseous fluids; impulse and resistance of fluids. Text-book: Church's Mechanics of Engineering.

Professor Peek.

Required of Seniors in Engineering Courses.

15. *Graphics* I

Lectures. One hour per week, first term. Graphical arithmetic; force diagrams; moment of inertia; stresses in trusses and mechanism; graphical dynamics.

Professor Peek.

Required of Seniors in Mechanical Engineering.

16. *Mechanical Refrigeration* 3

Three hours per week, part of second term. Study of fluids available; machinery and apparatus used in compression, and absorption systems; methods of freezing, cold storage; refrigeration from central stations. Lectures, recitations, and prescribed reading.

Professor Peek.

Required of Seniors in Mechanical Engineering.

17. *Heating and Ventilating* 3

Three hours per week, part of second term. Principles of

ventilation, systems of heating, piping, radiators, boilers, forced-blast systems, specifications.

Professor Peek.

Required of Seniors in Mechanical Engineering.

18. *Pumping Machinery* 3

Three hours per week, part of second term. Design, construction, and operation of pumps and pumping machinery, with special reference to waterworks service. Text-book: Barr's Pumping Machinery.

Professor Peek.

Required of Seniors in Engineering Courses.

19. *Turbines* 3

Three hours per week, part of second term. Action of a jet of water on a moving vane; impulse and reaction wheels; modern turbine, form, efficiency, and methods of regulation. Text-book: Trowbridge's Turbine Wheels; Wood's Reaction Motors; Lectures.

Professor Peek.

Required of Seniors in Engineering Courses.

20. (a) *Locomotive Mechanism* 3

Three hours per week, first term. A study of locomotive boilers, cylinders, frames; valve motion and valve setting; various systems of compound locomotives; air brakes. Text-book: Forney's Catechism of the Locomotive Mechanism.

Professor Peek.

Required of Seniors in Mechanical Engineering.

20. (b) *Marine Engines* 3

Three hours per week, second term. A study of marine engines, boilers, valve gear, shafting, propellers, etc.

Professor Peek.

Required of Seniors in Mechanical Engineering.

21. *Gas Engines* 2

Two hours per week, second term. History and present types of gas and oil engines; explosion in a closed vessel; the gas engine cycle; efficiency and adaptation of the gas engine. Text-book: Robinson's Gas and Petroleum Engine.

Professor Peek.

Required of Seniors in Mechanical Engineering.

CIVIL ENGINEERING. (C. E.)

J. J. KNOCH, Associate Professor.

1. *Descriptive Geometry* 2
 Recitation and practice two hours per week throughout the year. Text-book: Church's Descriptive Geometry.
 Required of Sophomores in Engineering Courses.
2. *Surveying* 3
 First and part of second term. Care, use and adjustment of instruments; use of chain, tape, compass, transit, solar attachment, level, sextant and plane table; land surveying, levelling, contouring, laws and instructions relating to surveys of the public domain. Text-book: Carhart's Surveying.
 Required of Sophomores in Engineering and Geological Courses.
3. *Field Practice* 3
 Exercises in land, city, and topographical surveying.
 Required of Sophomores in Engineering and Geological courses.
4. *Highways* 1
 One hour per week, second term. The location, construction, and maintenance of common, Macadam, and Telford roads; brick, stone, wood and asphalt pavements for city streets. Text-book: Spalding's Roads, Streets and Pavements.
 Required of Sophomores in Civil Engineering.
5. *Railroad Engineering* 2
 Three hours per week first term, two hours second term. Preliminary surveys and location; transition curves, yards and turnouts; estimates of earthwork and material used in construction; the economics of railway location and management. Text-book: Searle's Field Engineering, and Crandall's Transition Curve and Earthwork Computations, first term; Wellington's Economic Theory of Railway Location, second term.
 Required of Juniors in Civil Engineering.
6. *Field Practice* 2
 Location of curves, turnouts, and Y's; measurement of embankments and cuts, and computation of volumes.
 Required of Juniors in Civil Engineering.

7. *Railroad Survey* 12
 One week, twelve hours per day. Actual field practice in reconnoissance, preliminary survey and location.
 Required of Juniors and Seniors in Civil Engineering.
8. (a) *Drawing* 2
 First term. Lettering, shading and line drawing; pen and colored topography.
 Required of Sophomores in Civil Engineering.
8. (b) *Maps* 2
 Second term. Topographical and railroad maps from actual surveys.
 Required of Juniors in Civil Engineering.
9. *Masonry Construction* 2
 Two hours per week, second term. Use of lime and hydraulic cement mortars; stone and brick masonry foundations; foundations in soft materials on land and under water; cofferdams, cribs and caissons. Text-book: Baker's Masonry Construction.
 Required of Juniors in Civil and Mechanical Engineering.
10. *Mining Engineering*... 1
 Lectures one hour per week, first term. Mine surveying, blasting, timbering and winning deposits; ventilation, hygiene and mining law.
 Required of Juniors in Civil Engineering.
11. *Roofs and Bridges* 3
 Four hours per week, first term; two hours second term. Theory of computation of stresses by both analytical and graphic methods; full computations, designs and bills of material for a roof truss and railroad bridge. Text-books: Merriam and Jacoby's Roofs and Bridges, Parts I. and II.
 Required of Seniors in Civil Engineering.
12. *Sanitary Engineering* 2
 Two hours per week, first term. Calculation and special details of construction of sewers, separate and combined systems of sewerage; purification of sewage; municipal and domestic sanitation. Text-book: Baumeister's Cleaning and Sewerage of Cities.
 Required of Seniors in Civil Engineering.

13. *Stereotomy and Drawing* 2
 Two hours per week, first term. Right and oblique arches; cloisters and domes; isometric projections and drawings for templet patterns; stone cutting. Text-book: Warren's Stone Cutting.
 Required of Seniors in Civil Engineering.
14. *Arches and Dams* 2
 Two hours per week, part of first term. Theory of the equilibrium of arches and stability of masonry dams, by both analytical and graphic methods; drawings for complete designs. Text-book: Baker's Masonry Construction.
 Required of Seniors in Civil Engineering.
15. *Waterworks Engineering* 3
 Three hours per week, second term. Study of systems of water supply; collection, purification and distribution of water; location of waterworks, with details of estimate of cost. Text-book: Fanning's Hydraulic and Water Supply Engineering.
 Required of Seniors in Civil Engineering.
16. *Engineering Laboratory* 2
 Two hours per week, first and second terms. Test of strength and other properties of materials of construction; tensile and crushing tests of brick, stone and cement; flow of water through pipes, elbows, valves, and measurement by means of weirs.
Professor Peek and Associate Professor Knoch.
 Required of Seniors in Civil and Mechanical Engineering, first and second terms; of Seniors in Electrical Engineering, first term.
17. *Field Practice* 2
 Two hours per week, first and second terms. Topographical survey, triangulation and levelling.
 Required of Seniors in Civil Engineering.
18. *Drawing* 2
 Two hours per week, second term. Structural details; working drawings for designs.
 Required of Seniors in Civil Engineering.

MILITARY SCIENCE AND TACTICS.

FIRST LIEUTENANT ELIAS CHANDLER,
Sixteenth U. S. Infantry, Professor.

1. *Practical Work* 3
Three hours per week. In school of the soldier, squad, platoon, company, and battalion, close and extended order; ceremonies of guard mounting, dress parade, inspection and review; camping, guard duty, target practice, laying out field works, and signaling. In this work, the cadet officers act as instructors, thus putting into practice the knowledge gained in previous years.
Required of all male students over 15 years of age.
2. *Recitations and Lectures* 1
One hour per week. Infantry Drill Regulations (U. S. Army, Part I.). Manual of Guard Duty (U. S. Army).
Required of all male Freshmen.
3. *Recitations and Lectures* 1
One hour per week. Infantry Drill Regulations (U. S. Army, Part II.). Small Arms Firing Regulations (Blunt).
Required of all male Sophomores.
4. *Recitations and Lectures* 1
One hour per week. Military Field Engineering (Beach). Military Signaling (United States Army Signal Code).
Required of all male Juniors.
5. *Recitations and Lectures* 1
One hour per week. Service of Security and Information (Wagner). Military Law (Winthrop).
Required of all male Seniors.

MUSIC.

I. PIANOFORTE, HARMONY, AND MUSICAL HISTORY.

MISS ANNA LAIRD.

First Year.

Theoretical Rudiments; Graded Materials for Study, W. S. B. Matthews; Kohler's Etudes, Op. 50; MacDougall's Melody Playing; thirty selected studies from Heller; Mason's Technics.

Second Year.

Matthew's Phrasing and Interpretation; Loeschhorn's Etudes, Op. 66 and 67; Bach's Lighter Pieces; LeCouppey's Op. 26; Krause's Trill Studies, Op. 2; Doring's Op. 24; Mason's Technics; selections from Mozart, Schumann, Mendelssohn, and the best modern composers.

Third Year.

Harmony and History of Music; Heller's Art of Phrasing; Cramer's Select Studies—Von Bulow Edition; Bach's Inventions; Selected Octave Studies; Haberbier's Etude Poesies, Op. 53; Clementi's Gradus ad Parnassum; Mason's Technics; selections from Haydn, Beethoven, Schubert, Schumann, Chopin and the best European and American composers.

Fourth Year.

Analytical study of the principal works of the great masters.

Chopin's Op. 10 and 25; Bach's Preludes and Fugues; Cramer's Selected Studies; Moscheles' Op. 70; Kullak's Octave Studies; Kessler's Op. 20; Schumann's Etudes; Mason's School of Octaves, and Bravura.

The aim of this course is the development of a higher degree of technique, interpretation, and general musical intelligence—to make musicians as well as performers.

Classes in Normal training will be formed for those who wish to become teachers of music.

II. VOICE CULTURE AND VOCAL MUSIC.

MISS GERTRUDE CRAWFORD.

True cultivation of the voice consists in the development of pure tone, and its easy, natural use and control in singing.

Attention is given to respiration as an art applicable to singing; position of mouth and tongue, and control of the face in singing; emission of voice on vowels; exercises for uniting the registers; practice on sustained tones in the entire range of the voice; exercises in agility and velocity; exercises in articu-

lation of consonants and vowels; study of delivery and expression; the formation of good style, etc.

Garcia's Vocal Exercises, Concone, Bordogni, Marchesi, Panseron, and other technical works; songs of the English, Italian, French and German Schools; church music; study of opera and oratorio.

TERMS.

18 weeks, two lessons per week, Pianoforte and

Voice Culture, each	\$22.50
Harmony in class	5.00
Use of pianoforte for practice	2.50

Tuition payable in advance.

No deduction will be made except in case of prolonged illness.

Instruction in Guitar and Mandolin playing given.

PSYCHOLOGY AND ETHICS.

PRESIDENT BUCHANAN.

The course offered in these subjects consists of recitations, lectures, and full and free discussions by the members of the class. In connection with a careful examination of the views and opinions of leading thinkers, students are encouraged to study their own mental phenomena and to subject to the test of individual consciousness the various theories which come under investigation. Due attention is given to the recognized contributions of modern Physiology to Psychology. As introductory to this part of the subject, the Professor of Biology gives a course of lectures with accompanying laboratory work in Neurology, which all students whose course includes

Psychology, are required to attend during a part of the second term of the Junior year.

1. *Psychology* 3

Three times a week, first term.

Required of Seniors in Course IV.

2. *Ethics* 2

Twice a week, second term.

Required of Seniors in Course IV.

3. *Political Economy* ... 2

Lectures and recitations twice a week. Attention is specially directed to the leading questions of the day, such as public finance, tariff, railway, and other corporate industries, etc.

Required of Juniors in Course IV.



COURSES FOR DEGREE OF BACHELOR OF ARTS (B. A.).

A student may elect any one of seven courses, each having a leading or major subject of study, and after choosing his course a number of studies are still left to his choice. Great freedom of election is thus secured. In each course there is a minimum requirement of one full year (five hours per week) in mathematics. In languages there must be, besides English, not less than four yearly courses (each three hours per week), one of which must be Latin. No preparatory studies can be counted here.

Students may thus give special attention to any ancient or modern language, to any branch of science, or to history. Each class has such practical work as the subject requires, and optional studies are allowed to a limited extent, if the student shows himself able to do more than the prescribed work.

An outline of the courses is shown opposite this page. For details concerning the studies mentioned, consult Departments of Instruction, beginning on page 54.

COURSES LEADING TO THE DEGREE OF BACHELOR OF ARTS.

The figures immediately following each subject indicate the number of the courses; those at the right of each column indicate the number of hours per week.

Major Subjects	I. ANCIENT LANGUAGES.	II. MODERN LANGUAGES.	III. MATHEMATICS.	IV. HISTORY.	V. CHEMISTRY.	VI. ZOOLOGY, (OR ENTOMOLOGY.)	VII. GEOLOGY.
FRESHMAN.	Latin 1 3 Greek 1 4 Mathematics 1 2 Mathematics 2 3 English 1 3	Latin 1 3 French 1 3 Mathematics 1 2 Mathematics 2 3 English 1 3 History 3 1	Latin 1 3 French 1 3 Mathematics 1 2 Mathematics 2 3 English 1 3 History 3 1	Latin 1 3 Mathematics 1 2 Mathematics 2 3 English 1 3 History 1 2 Elective 3	Latin 1 3 Mathematics 2 3 English 1 3 Physics 1 3 Chemistry 1 3	Latin 1 3 Mathematics 2 3 English 1 3 Physics 1 3 Biology 1 3	Latin 1 3 Mathematics 2 3 English 1 3 Geology 1 2 Elective 4
SOPHOMORE.	Latin 2 3 Greek 2 3 English 2 3 Elective 6	Latin 2 3 French 2 and 4 3 English 2 3 History 2 3 Elective 3	Mathematics 3 and 4 5 English 2 (a) 2 Physics 1 3 Elective 5	English 2 3 History 2 3 History 3 1 Physics 1 or } 3 Chemistry 1 } 3 Elective 6	Modern Language 3 Chemistry 3 (a) 1st term } 2 (Chemistry 2, 2d term) Chemistry 3 (b) 3 Elective 7	History 2 3 Chemistry 1 1 Botany 1 and 2 3 Zoölogy : 3 Elective 3	Modern Language 1 English 2 (a) 2 Chemistry 1 3 Geology 2, 3, and 4 1 Elective 4
JUNIOR.	Latin 4 2 Latin 5 2 Greek 3 3 English 4 2 Elective 6	English 3 2 English 4 2 German 1 3 French 3, } 3 Spanish 1, } or Italian 1 } Elective 6	Mathematics 5 3 Mathematics 6 and 7 2 German 1 3 Elective 7	English 4 2 History 4 2 Political Economy 2 Elective 10	Modern Language 3 Chemistry 4 3 Chemistry 5 4 Elective 5	Zoölogy 2 or } 3 Entomology 1 } 3 Geology 2, 3, and 4 3 Elective 10	Modern Language 3 Chemistry 5 3 Geology 5 2 Geology 6 2 Elective 5
SENIOR.	Latin 6 and 7 } 3 or Greek 4 ... } English 6 1 Elective 11	English 5 3 English 6 1 German 2 3 German 3 2 German 4 1 Elective 6	Mathematics 8 and 9 4 Elective 11	English 6 1 History 7 2 History 8 2 Psychology and Ethics 3 Elective 8	Modern Language 3 Chemistry 7 3 Chemistry 6 and 9 4 Elective 5	Zoölogy 4 and 5 } 5 or Entomology 2 } Elective 11	Geology 7 2 Geology 8 (Thesis) 2 Biology 1 3 Elective 8
	<i>Required:</i> French 1 or German 1, one course in Natural Science, one course in Physical Science.	<i>Required:</i> One course in Natural Science, one course in Physical Science.	<i>Required:</i> One course in Latin or in French or in German.	<i>Required:</i> Three courses in languages.	<i>Required:</i> Mathematics 1.	<i>Required:</i> Mathematics 1 and three courses in languages.	<i>Required:</i> Mathematics 1 and one course in a language.

NOTE.—Courses V., VI., and VII. lead to the degree of BACHELOR OF SCIENCE, if a modern language be substituted for Latin 1.

THE NORMAL COURSE.

Normal students must consult Professor Howell immediately after registration.

Section 6974 of the Revised Statutes of the State is as follows: "The State Superintendent of Public Instruction shall have power to grant State certificates, which shall be valid for life, unless revoked, to any person in the State who shall pass a thorough examination in all those branches required for granting county certificates, and also in algebra and geometry, physics, rhetoric, mental philosophy, history, Latin, the Constitution of the United States, and of the State of Arkansas, natural history, and the theory and art of teaching."

This course includes all the branches required for a State certificate in accordance with the law, and leads to the degree of Licentiate of Instruction (L. I.). After completing the Normal Course, students may take up in the Junior Class the work of any course for which they may be prepared, and compete for the corresponding degree.

FRESHMAN YEAR.

	Hours per week.
Botany 1 (<i>Systematic Botany</i>).....	3
English 1 (<i>Language and Literature</i>).....	3
History 1 (<i>Constitutional History</i>).....	2
Latin 1 (<i>Nepos, Cicero, and Virgil</i>).....	3
Mathematics 1 (<i>Algebra</i>).....	2
Mathematics 2 (<i>Geometry and Trigonometry</i>).....	3
Pedagogics 1.....	2

SOPHOMORE YEAR.

English 2 (<i>Prose Style, Literature</i>).....	3
History 2 (<i>General History</i>).....	3
Pedagogics, 2, 3 and 4.....	3
Physics, 1 (<i>General Physics</i>).....	3
Zoölogy 1 (<i>General Zoology</i>).....	3

COURSES IN MECHANIC ARTS AND ENGINEERING.

Students in this department must consult Professor Peek immediately after registration.

GENERAL DESCRIPTION OF COURSES IN ENGINEERING.

Mechanical Engineering directs the design and construction of all forms of machines, and their installation in machine shops, mills and factories. It directs the design, construction, erection and operation of boilers, steam and gas engines, locomotives, turbines and other prime movers; of pumping machinery for waterworks; of machinery and apparatus for the manufacture of ice, the distribution of refrigeration from central stations, and the heating and ventilation of buildings. Since the utilization of the forces and materials of nature is accomplished in nearly all classes by machines, or by processes working through machinery, it is evident that Mechanical Engineering is the basis of all industries.

Civil Engineering embraces the location and construction of railroads, canals, waterworks, sewerage systems, foundations on land and in water, tunnels and superstructures; the surveys, improvements and defenses of coasts, harbors, rivers, and lakes; the application of Mechanics, Descriptive Geometry and Graphics to the design and construction of arch bridges, roofs, truss, and suspension bridges; the irrigation and drainage of lands, and the location and maintenance of public roads,

ELECTRICAL ENGINEERING.

Two courses of instruction are offered. The four years course is intended to afford a good general education, and at the same time to so thoroughly ground the student in the principles of Electrical Engineering as to furnish a good foundation for the profession.

Theoretical and applied electricity and the mechanics of engineering are naturally the leading subjects.

Theory is amply treated and is tested by experiments in well equipped laboratories. This gives the student a degree of facility in the use of instruments and machines which is acquired only by continued practice. As a requisite for graduation, each candidate must present an acceptable thesis, embodying the results of special study. The subject of such study must lie within the field of Electrical Engineering. It must be announced not later than the beginning of the second term of the senior year, and must be approved by the professor in charge. The completed thesis must be submitted not later than two weeks before commencement day, and one copy must be deposited in the library as the property of the University.

The short course of two years is designed for students lacking time and preparation for the full course, and is especially intended for those students who have had some practical experience in engineering. The work is more elementary than in the long course, and embraces only the Mathematics, Physics, Electrical Engineering, and laboratory instruction

needed for practical work. It thus prepares students for operating or superintending lighting, power, or manufacturing plants. It does not lead to a degree, but a suitable certificate will be given on completion of the work.

MECHANICAL ENGINEERING COURSE FOR DEGREE OF B. M. E.

	FRESHMAN YEAR.		Hours per Week	
			1st Term.	2d Term.
Mathematics 2 (<i>Geometry and Plane Trigonometry</i>)	3	3		
Mathematics 1 (<i>Algebra</i>)	2	2		
Chemistry 1 (<i>General Chemistry</i>)	3	3		
Physics 1 (<i>General Physics</i>)	3	3		
English 1 (<i>English Language and Literature</i>)	3	3		
M. E. 2c (<i>Drawing</i>)	2	2		
M. E. 1, a, b (<i>Shop Work</i>)	2	2		
Military Science	1	1		

SOPHOMORE YEAR.			
Mathematics 3, 4	5	5	
Physics 2 (<i>Electricity and Magnetism</i>)	3	3	
C. E. 2, 3 (<i>Surveying and Field Practice</i>)	3	3	
M. E. 3 (<i>Drawing</i>)	2	2	
C. E. 1 (<i>Descriptive Geometry</i>)	2	2	
M. E. 1, b, c (<i>Shop Work</i>)	2	2	
Military Science	1	1	

JUNIOR YEAR.			
Mathematics 5 (<i>Calculus</i>)	3	3	
Solid Analytical Geometry (<i>Optional</i>)		2	
M. E. 4 (<i>Elements of Mechanism</i>)	2	...	
M. E. 11 (<i>Steam Engineering</i>)		3	
M. E. 12, 13 (<i>Mechanics</i>)		5	
E. E. 7 (<i>Dynamo-Electric Machinery</i>)	5	...	
C. E. 9 (<i>Masonry Construction</i>)	2	...	
M. E. 7 (<i>Drawing and Machine Design</i>)	2	2	
M. E. 10 (<i>Mechanical Laboratory</i>)	1	1	
M. E. 1, c, d (<i>Shop Work</i>)	2	2	
Military Science	1	1	

SENIOR YEAR.

M. E. 13, 14, 15 (<i>Mechanics</i>).....	5	...
M. E. 9, 5, 6 (<i>Steam Engine Design</i>).....	3	....
Chemistry 7 (<i>Technical Chemistry</i>).....	3	3
M. E. 20a, 20b (<i>Locomotives and Marine Engines</i>)....	3	3
or French 1, or German 1		
M. E. 16, 17 (<i>Heating, Ventilating and Refrigeration</i>)..	3	3
M. E. 18, 19 (<i>Hydraulic Machinery</i>).....	3	3
M. E. 21 (<i>Gas Engines</i>).....	2	2
C. E. 16 (<i>Engineering Laboratory</i>).....	2	2
M. E. 8 (<i>Drawing</i>).....	2	2
Military Science	1	1
Thesis .....	...	...

CIVIL ENGINEERING COURSE FOR DEGREE OF B. C. E.

FRESHMAN YEAR.

Hours per Week
1st Term. 2d Term.

Mathematics 2 (<i>Geometry and Plane Trigonometry</i>)	3	3
Mathematics 1 (<i>Algebra</i>).....	2	2
Chemistry 1 (<i>General Chemistry</i>).....	3	3
Physics 1 (<i>General Physics</i>).....	3	3
English 1 (<i>English Language and Literature</i>)... ..	3	3
M. E. 2c (<i>Drawing</i>)	2	2
M. E. 1a, b (<i>Shop Work</i>).....	2	2

SOPHOMORE YEAR.

Mathematics 3, 4	5	5
Physics 2 (<i>Electricity and Magnetism</i>) }	3	3
or French 1, or German 1.....		
C. E. 2, 3 (<i>Surveying and Field Practice</i>).....	3	3
C. E. 8 (<i>Drawing</i>).....	2	2
C. E. 1 (<i>Descriptive Geometry</i>).....	2	2
C. E. 4 (<i>Highways</i>)	1	1
English 2 (<i>Prose Style and American Literature</i>).....	3	3
or Physics 3 (<i>Physical Measurements</i>)	2	2
Military Science	1	1

JUNIOR YEAR.

Mathematics 5 (<i>Calculus</i>).....	3	3
M. E. 11 (<i>Steam Engineering</i>).....	3	3
Geology 2 (<i>General Geology</i>).....	3	...
Geology 5 (<i>Practical Geology</i>).....	1	...

M. E. 12, 13 (<i>Mechanics</i>)	5	
C. E. 9 (<i>Masonry Construction</i>)	2	...
C. E. 5 (<i>Railroad Engineering</i>)	3	2
C. E. 10 (<i>Mining Engineering</i>)	1	...
C. E. 6 (<i>Field Practice</i>)	2	2
C. E. 8a, 8b (<i>Drawing</i>)	2	2
Military Science	1	1

SENIOR YEAR.

M. E. 13, 14 (<i>Mechanics</i>)	4	...
M. E. 18, 19 (<i>Hydraulic Machinery</i>)		3
C. E. 15 (<i>Waterworks Engineering</i>)		3
C. E. 11 (<i>Roofs and Bridges</i>)	4	2
Geology 7 (<i>Mineralogy</i>)		3
C. E. 12 (<i>Sanitary Engineering</i>)	2	...
C. E. 13, 14, 18 (<i>Drawing and Stereotomy</i>)	2	2
C. E. 17 (<i>Field Practice</i>)	2	2
Military Science	1	1
Thesis .....		...

ELECTRICAL ENGINEERING COURSE FOR DEGREE OF
B. E. E.

FRESHMAN YEAR.

	Hours per Week.
Mathematics 1 and 2 (<i>Algebra, Geometry and Plane Trigonometry</i>)	5
English 1 (<i>English Language and Literature</i>)	3
Physics 1 (<i>General Physics</i>)	3
Chemistry 1 (<i>General Chemistry</i>)	3
M. E. 2c (<i>Mechanical Drawing</i>)	2
M. E. 1c and d (<i>Forging and Machinist Work</i>)	2
Military Science 2	1

SOPHOMORE YEAR.

Mathematics 3, 4 (<i>Spherical Trigonometry, Analytical Geometry and Calculus</i>)	5
Physics 2 (<i>Electricity</i>)	3
English 2 (<i>Prose Style and American Literature</i>)	3
Physics 3 (<i>Physical Measurements</i>) or	2
M. E. 1a and b (<i>Woodworking and Founding</i>) }	
C. E. 1 (<i>Descriptive Geometry</i>)	2

C. E. 2 and 3 (<i>Surveying and Field Practice</i>).....	3
Military Science 3.....	1

JUNIOR YEAR.

	Hours per Week	
	1st Term.	2d Term.
Mathematics 5 (<i>Calculus</i>).....	3	3
Mathematics 7 (<i>Differential Equations</i>) optional.....		2
German I (<i>Modern German, Elementary or</i> } French I (<i>Modern French, Elementary</i> }	3	3
E. E. 7 and 8 (<i>Dynamo Electric Machinery and Theory of Alternate Currents</i>)	5	2
E. E. 5 (<i>Electrical Laboratory</i>).....	2	1
E. E. 3 (<i>Technical Drawing</i>)	2	1
M. E. 4 and 11 (<i>Elements of Mechanisms and Steam Engineering</i>)	2	3
M. E. 12 and 13 (<i>Statics and Dynamics, Strength of Materials</i>)		5
Military Science 4.....	1	1

SENIOR YEAR.

	Hours per Week	
	1st Term.	2d Term.
Chemistry 12 (<i>Metallurgy of Iron and Steel</i>).....	3	....
M. E. 13, 14 and 19 (<i>Strength of Materials, Hydraulics and Turbines</i>)	4	3
C. E. 16 (<i>Engineering Laboratory</i>)	2	....
E. E. 9 (<i>Alternate Current Machinery</i>)		2
E. E. 4 (<i>Technical Drawing</i>).....	2	2
E. E. 12 and 14 (<i>Electrical Measurements and Photometry</i>)	2	1
E. E. 6 (<i>Electrical Laboratory</i>)	2	2
E. E. 13, 11 (<i>Electrical Design, Telegraphy, Telephony</i>)	1	2
E. E. 8 and 10 (<i>Theory of Alternate Currents and Electric Railways</i>).....	2	2
E. E. 2 (<i>Contracts and Specifications</i>)		1
Military Science 5.....	1	1
French 5 (<i>Scientific French or</i> } German 5 (<i>Scientific German</i> } Optional.....	1	1
Thesis .....		....

SHORT COURSE IN ELECTRICAL ENGINEERING.

FIRST YEAR.

	Hours per Week.
Mathematics 1 and 2 (<i>Algebra, Geometry, Plane Trigonometry</i>)..	5
Physics 1 and 2 (<i>General Physics and Electricity</i>)	6
M. E. 2c (<i>Mechanical Drawing</i>)	2
M. E. 1c and d (<i>Forging and Machinist Work</i>)	2
Military Science 2	1

SECOND YEAR.

	Hours per Week.	
	1st Term.	2d Term.
Physics 3 (<i>Physical Measurements</i>)	2	2
M. E. 1e (<i>Engine and Boiler Management</i>)	2	3
C. E. 2 and 3 (<i>Surveying and Field Practice</i>)	3	3
E. E. 7 and 1 (<i>Dynamo, Electric Machinery and Man- agement of Dynamos and Motors</i>).....	5	2
E. E. 5 (<i>Electrical Laboratory</i>)	1	1
E. E. 3 (<i>Technical Drawing</i>)	2	2
E. E. 10 (<i>Electric Railways</i>)		2
E. E. 2 (<i>Contracts and Specifications</i>)		1
Military Science 3	1	1



AGRICULTURAL COURSE.

The degree conferred for satisfactory completion of this course is Bachelor of Science in Agriculture. A two years' course is provided for students who can not remain to complete the full course.

The scientific methods and manipulations taught here will secure for Arkansas farmers far greater profits than the usual methods produce. In agriculture and in all subjects related to it, students are in daily association with advanced specialists, and have the benefit of their experiments. They have also the use of the library, museum and scientific specimens belonging to the United States Experiment Station.

Farm labor is not required of agricultural students, unless needed occasionally in illustrating the subjects taught in the lecture room.

FRESHMAN YEAR.

	Hours per Week.
Mathematics 1 (<i>Algebra</i>).....	2
Mathematics 2 (<i>Geometry and Plane Trigonometry</i>).....	3
English 1 (<i>English Language and Literature</i>)	3
Chemistry 1 (<i>General Inorganic Chemistry</i>)	3
Botany 1 (<i>Systematic Botany</i>)	3
Agriculture 1 (<i>Soils</i>)	2

SOPHOMORE YEAR.

Physics 1 (<i>General Physics</i>)... ..	3
English 2 (<i>American Literature and Prose Style</i>).....	3
Agricultural Chemistry	3
Surveying	3
Horticulture 1 (<i>Propagation of Plants; Gardening</i>).....	3
Agriculture 2 (<i>Farm Crops and Machinery</i>).....	2

JUNIOR YEAR.

Geology 2, 3, and 4.....	3
Anatomy and Physiology of Domestic Animals	3
Horticulture 2 (<i>Fruits and Landscape Gardening</i>)	3
Agriculture 3 (<i>Stock Breeding</i>)	2
Political Economy.....	2
Elective.....	3

SENIOR YEAR.

Psychology and Ethics	3
Bacteriology and Hygiene.....	2
Agricultural 4 (<i>Rural Economics</i>)	2
Meteorology.....	2
Horticulture 3 (<i>Forestry and Plant Breeding</i>)	2
Constitutional History.....	2
Elective.....	3



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	Spanish
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al and Engineering c	

SCHEDULE OF COLLEGIATE RECITATIONS.

Figures to the left show the term during which the subject is studied; those to the right show the number of the course.

	1. 8:45 9:45	2. 9:45 10:45	3. 10:45 11:45	4. 11:45 12:45	5. 1 2	6. 2 3	7. 3 4	8. 4 5
FRESHMAN.	Biology 1, W., F..... Chemistry 1, M., F..... Geology 1, T., Th..... Latin 1, M., W., F..... Mathematics 1, T., Th..... Mathematics 2, M., W., F.....	French 1, T., Th., F..... Latin 1, M., W., F..... Mil. Science, M..... Pedagogics 1, T., Th.....	French 1, T., Th., F..... Mathematics 1, T., Th..... Mathematics 2, M., W., F.....	English 1, M., W., F..... Physics 1, T., Th..... Physics 2, M., F.....	English 1, M., T., Th..... English 1, F..... History 3, W.....	English 1, M., W..... French 1, T., Th., F..... History 1, M., W.....	Greek 1, M., W., Th., F..... Mil. Science, T.....	Drill, M., T., W.
	Biology 1, T..... Physics 2, W..... Physics 3, M., F.....					Chemistry 1, W..... Physics 1, Th.....		
SOPHOMORE.	English 2, M., W., F..... French 4, T., Th..... Pedagogics 2, 3 and 4, M., W., F.....	French 1, T., Th., F..... French 2, M., W..... Geology 2, 3 and 4, T., W., F..... Latin 2, T., Th., F.....	French 1, T., Th., F..... Greek 2, T., Th., F..... Mathematics 3 and 4, M.—F.....	1 Chemistry 3a, M., T., Th..... 2 Chemistry 2, M., T., Th..... English 2, M., W..... Mil. Science, F.....	English 2, F..... French 5, W..... History 2, M., T., Th..... History 3, W.....	Botany 1, M..... French 1, T., Th., F.....	Mil. Science, Th..... Zoölogy 1, F.....	Drill, M., T., W.
			Botany 1 and 2, T., Th..... Zoölogy 1, M., W.....			Chemistry 3b, M., T., W., Th.....		
JUNIOR.	English 4, T., Th..... Mil. Science, W..... Zoölogy 2, M., Th.....	2 Astronomy, T., Th..... Entomology 1, F..... German 1, M., W., F..... 1 Logic, T., Th.....	Chemistry 4, T., Th., F..... French 3, T., Th., F..... Greek, 3, T., Th., F..... Latin 4, M., W.....	History 4, T., Th..... Mathematics 5, M., W., F..... Mathematics 6 & 7, T., Th.....	French 5, W..... Polit. Economy, M., W.....	Latin 5, T., Th.....	English 3, T., Th..... Italian 1, M., W., F..... Spanish 1, M., W., F.....	Drill, M., T., W.
					Entomology 1, M., W.....			
			Zoölogy 2, F.....			Chemistry 5, M., T., W., Th..... Geology 5, F..... Geology 6, T.....		
SENIOR.	Chemistry 7, T..... German 3, M., W..... Latin 6 and 7, M., W., F.....	Chemistry 7, F..... German 4 T., Th..... German 5, W..... Greek 4, M., W..... Metallurgy, M., T., Th..... Zoölogy 4 and 5, M., Th.....	2 Ethics, T., Th..... History 8, M., W..... Psychology, T., Th., F.....	Chemistry 7, Th..... German 2, T., Th., F..... Greek 4, F..... Mil. Science, M.....	English 5, M., W., F..... English 6, Th.....	1 Geology 7a, M., W..... History 7, T., Th..... Mathematics 8 & 9 M., T., Th., F..... Spanish 2, M., W., F.....	Spanish 3, T., Th.....	Drill, M., T., W.
						2 Geology 7h, M., W.....		
					Zoölogy 4 and 5, T., Th., F.....			

NOTE—The above does not contain the schedule of recitations in the Agricultural and Engineering courses.

GRADUATE COURSES AND DEGREES.

Graduate courses are offered in all departments, when there are students enough to form a class. The following courses are definitely outlined :

1. *Anglo-Saxon and English Philology* 2

Ten Brink's Old English Literature (selections); Cook's Sievers' Grammar and one of the following courses of reading with critical and philological study: (a) Alfred's Orosius (Sweet); Judith (Cook); Elene (Kent); or (b) Exodus and Daniel (Hunt); Beowulf (Harrison and Sharpe). For reference: Henry's Comparative Grammar. Brooke's Early English Literature, Bosworth's Anglo-Saxon Dictionary, Skeat's Etymological Dictionary, Mayhew's Synopsis of Old English Phonology, Sweet's Primer of Phonetics, Kluge's Etymological Dictionary, Balg's Glossary of Gothic.

Miss Pace.

For graduate students who have completed English 4, 5, and 6, and German 1.

2. *Gothic and Germanic Philology* 3

For students who wish to study English or German historically. Special attention is given to the phonological relations of Gothic to earlier Indo-European languages and to later Germanic languages. Balg's Translation of Braune's Gotische Grammatik; Ulfilas (Heyne or Balg); Douse's Introduction to the Study of Gothic. For reference: Wright's Primer of Gothic, Balg's Glossary, Kluge's Etymological Dictionary, Mayhew's Synopsis, Sweet's History of English Sounds, Brugmann's Comparative Grammar.

Professor Willis.

For graduate students who have completed English 4, 5, and 6, and German 1 and 2 or 3.

3. *English Literature*..... (each) 3

(1) Critical study of the life and works of Scott, Byron, Macaulay, Thackeray, Carlyle, and Tennyson; (2) of Irving, Poe, Hawthorne, Emerson, Longfellow, and Sidney Lanier;

(3) of Shakespeare (complete works); (4) of Chaucer (complete works).

Miss Pace.

For graduates who have completed English 2, 3, and 4.

NOTE—At present not more than one of the above graduate courses will be given in any one year to resident students.

4. *German* 3

One of the following courses of one year each may be taken at the professor's convenience: (1) Life and Works of Goethe, (2) of Schiller, (3) of Lessing, (4) Old and Middle High German, (5) Gothic and Germanic Philology.

For graduates who have completed German 2, 3, and 4.

5. *French* 3

One of the following courses of one year each may be taken at the professor's convenience: (1) Life and Works of Molière, (2) of Corneille and Racine, (3) of Voltaire, (4) of Victor Hugo, (5) Old French.

For graduates who have completed French 2, 3, and 4.

6. *Latin* 3

Students who have completed Latin 6 and 7 may take, at the professor's convenience, a graduate course, which for '97-'98 will consist of the Life and Works of Horace.

7. *Greek* 3

In '97-'98 graduate students may take, under the direction of the professor, a course in either the Attic Orators or the Drama.

8. *Polyphase Electric Currents* 2

Recitations and experimental work. Text-book: Thompson's Polyphase Electric Currents.

Associate Professor Gladson.

REQUIREMENTS FOR DEGREES OF C. E., M. E. OR E. E.

These courses of study are intended to give additional preparation to those students who have finished an undergraduate course in Engineering, for some special line of work to which their previous study

has led. The student will have all reasonable liberty in selecting such specialties and will be limited only by certain general requirements. He will be required at the beginning of the year to make up the course which he proposes to follow and to present it to the Faculty, approved by the instructors concerned. If accepted, it will be subject to change only by the Faculty. In general, it is expected that these courses shall comprise one principal subject based on the course already pursued and two secondary subjects, one or both of which should be closely related to the principal. The graduate course should amount to not less than fifteen recitation hours per week as counted in undergraduate work.

The subject of a thesis for any of the above degrees must be submitted to the Faculty for approval before the middle of the second term.

These degrees will also be given to graduates in Civil, Mechanical, and Electrical Engineering who have been in successful practice of their profession for three years and who have submitted a satisfactory thesis on a subject approved by the Faculty.

REQUIREMENTS FOR THE MASTER'S DEGREE.

Applicants for the degree of M. A. or M. S. must have previously taken the Degree of B. A. or B. S. at this institution or at one having equal requirements. In addition they must take at the University, for a full scholastic year, not less than fifteen hours of recitations and lectures, as determined by the Faculty, and submit a satisfactory thesis.

Bachelors of Arts or of Science of this University may obtain the master's degree without actual resi-

dence, but must complete the work mentioned above and pass satisfactory examinations upon it.

THE DEGREE OF DOCTOR OF PHILOSOPHY (PH. D.)

1. This degree will be conferred for distinguished attainments, as shown by examination and thesis, in any one of the five following subjects: Latin, Greek, German, French, English, or History, together with subordinate attainments in two others of the five; or for distinguished attainments in one principal and two subordinates, of the following sciences: Chemistry, Physics, Geology, Biology, Mathematics, Mechanics, Civil Engineering, or Electricity.

2. This degree shall be open to persons who have received the Degree of B. A. or B. S. at this institution, or at one having equal requirements. Ordinarily it will take three full years' study to complete the work required for this degree, and the last year or a longer time must be spent in resident study at this University.

3. A thesis of 5,000 words or more showing original research shall be required of every applicant, the subject of which shall be announced and passed upon by a committee of the Faculty at least one year before the time set for the final examination, and the thesis itself must be presented to the committee two months before admission to this examination. Twenty-five copies of the approved and printed thesis shall be placed in the University library.

4. All applicants for this degree must, by the end of the first year of the course, be sufficiently

conversant with French and German to read with ease any scientific work written in these languages.

Charges.—Graduate students pay \$10 for matriculation and registration, \$10 tuition (nonresidents \$5) at the beginning of each session, and \$10 in advance for the final examination. Students who fail to comply with any of these requirements, or who do not each year complete the equivalent of two terms' work in one subject, will be dropped from the rolls. Should such students desire to resume their studies, they must pay for matriculation and registration, as if beginning for the first time. The diploma fee is \$5 in advance in each case.

Graduates attending only undergraduate classes pay the same fee as undergraduates.

Nonresident students have such assistance and instruction in their studies as can be conveniently given by correspondence.



UNIVERSITY EXTENSION.

The purpose of University Extension is to give instruction to persons who are unable to attend the University, and who wish to devote a limited portion of their time to study and culture. It is especially helpful to those who have already begun collegiate courses of study, or have had good high school courses, but persons of ordinary general information may derive much benefit in this way.

The officers of the University hold themselves in readiness to give, within the State, courses of lectures at any conveniently accessible place, where such lectures may be desired.

Printed synopses for each course will be sent in advance for all persons who pledge themselves to study the course, and who register for it with the local manager. With these synopses there will be references to good literature on the subject, and other information. In connection with the lectures there will be further explanation in conferences or quizzes; and all persons who have attended the lectures, have the privilege of being examined upon their work and of having their credits entered on the University records. Persons who have passed satisfactory examinations upon twelve extension courses of six lectures each, will receive a University extension certificate.

For a course of lectures no charge will be made beyond the expenses of the lecturer. This charge may be met by a small fee, paid in advance to the local manager, for each person attending the lectures.

Correspondence on the subject should be addressed to the President of the University.

SINGLE LECTURES FOR ARKANSAS COMMUNITIES.

Wishing to make the University a direct benefit to the largest possible number of the citizens of Arkansas, the Faculty offer a number of single lectures free to schools in the State, to societies of a religious, scientific, or literary character, or to communities seeking general culture. In all cases the lecturer's expenses must be paid; but no further charge is made by the University, if the lecture is free to the public, or if the admission fee is merely a sum intended to cover the lecturer's expenses.

AIDS TO PRIVATE STUDY.

The University will do all in its power to aid and stimulate culture in every form; and references, advice, and any other help that may be practicable, will be cheerfully given to citizens who wish to follow courses of reading, either special or general, or to make scientific investigations, or to acquire useful information of any kind.

TEACHERS' NON-RESIDENT COURSES.

The University offers special opportunities to all teachers in Arkansas. It will admit them to its regular examinations for admission to the Freshman class, or will send the examination questions to county examiners, who will submit them to teachers under the usual rules and return answers to the University. Teachers who pass the required entrance examinations, may then matriculate and enter upon nonresident courses of study under direction of the

University professors; and upon completion of one term's work in any branch, they will be examined upon said work and credited with it, if it comes up to the University standard.

After finishing three-fourths of the course for a bachelor's degree, such teacher-students may graduate by completing the course as regular resident students.

Nonresident study is pursued under disadvantages, and none but energetic and methodical persons, who are willing to practice much self-denial, can succeed in such work. Such courses of study are in many respects less thorough than study under regular instruction at the University. Yet thousands of persons who cannot attend college regularly, are thus educating themselves; and the self-reliant habits of study and investigation acquired by successful work of this kind are of untold value.

Teachers accepting this offer must obtain not less than two credits (two subjects passed for one term, or one subject for two terms), each year; else their names will be dropped from the rolls. Teachers whose vacation occurs during the session of the University, may supplement their nonresident study by attending the regular classes.



PREPARATORY SCHOOL.

INSTRUCTORS.

B. J. DUNN, Principal, and Instructor in Mathematics.

G. A. COLE, Instructor in Mathematics, Physiology and Book-keeping.

MARY E. WASHINGTON, Instructor in History and Mathematics.

NAOMI J. WILLIAMS, Instructor in Latin and English.

MRS. E. W. COLE, Instructor in History and English.

MARY A. DAVIS, Instructor in English and History.

LINA REED, Instructor in Latin and English.

JESSIE L. CRAVENS, Instructor in Elocution.

MACK MARTIN, Instructor in Foundry and Forging.

GERTRUDE S. CRAWFORD, Instructor in Vocal Music.

ANNA LAIRD, Instructor in Instrumental Music.

The collegiate teachers of the University assist in the Preparatory School whenever needed and it is practicable for them to do so. During the past year the following officers have rendered assistance: W. B. Bentley, Chemistry; G. W. Droke, Mathematics; E. F. Shannon, Latin; A. H. Purdue, Physical Geography; B. N. Wilson, Drawing and Woodworking.

The Preparatory School is intended, first, to prepare students for any of the courses of study taught in the University; second, to furnish to those who cannot take a more extended course, as good a general education as the limited time will permit; third, to prepare teachers for the public grammar schools of the State. To secure these ends, two courses of study are offered.

REQUIREMENTS FOR ADMISSION.

I. *Arithmetic*.—Students are examined in the whole of Wentworth's Grammar School Arithmetic

and an accurate knowledge of all this is rigidly required. Teachers preparing pupils for admission should require them to learn principles and definitions accurately and to analyze every example capable of analysis, or should give them thorough drill in mental arithmetic.

2. *English Grammar*.—Maxwell's Elementary Grammar.

3. *Geography*.—The whole of some complete manual of Geography, such as Maury's or Frye's.

4. *Reading, Spelling, and Writing*.—Proficiency in these subjects is tested by the examination in Grammar.

NOTE.—Candidates for second year, general course, will be examined in Arithmetic, Algebra to fractional equations, Maxwell's Advanced Grammar, History of the United States, Descriptive Geography, and Latin (Collar and Daniell).

Scientific and engineering students are not examined in Latin, but in Physical Geography and in Bookkeeping instead. Students entering after the session has begun will be examined also in the work passed over by their classes.

ORDER OF EXAMINATIONS FOR ADMISSION.

Wednesday, September 15, 9 a. m., registration of students; 1-4 p. m., Algebra, Geography.

Thursday, September 16, 9-12 m., Arithmetic; 1-4 p. m., Latin.

Friday, September 17, 9-11 a. m., English Grammar; 11-12 m., English Composition; 1-4 p. m., United States History, General History.

DETAILED WORK OF THE COURSES.

FIRST YEAR.

Mathematics, 5.—Wentworth's High School Arithmetic, page 120 to the end; Wentworth's Algebra to page 130.

English, 4.—Maxwell's Advanced Grammar; Lamb's Tales of Shakespeare; four original essays per term, corrected and copied; Guerber's Myths of Greece and Rome.

Parallel Reading.—J. Esten Cooke, Fairfax; Gilmore Simms, Katherine Walton and Marion; Longfellow, Courtship of Miles Standish; Joseph (Father) Ryan, The Conquered Banner; Albert Pike, The Mocking Bird; lives of the above authors.

Latin, 4.—Collar and Daniell's Beginner's Latin.

History, 3.—Chambers's United States History and Hempstead's History of Arkansas.

Physical Geography, 3.—Tarr's Physical Geography.

Bookkeeping, 1.—Messervey's Bookkeeping.

Woodworking, 8.—Principles of carpentry and joinery; wood turning; pattern making; cabinet work. Sickel's Exercises in Woodworking.

Freehand Drawing, 2.—Practice work; outline drawing from models and machine parts; plans, elevations, sections, dimensions, etc.

SECOND YEAR.

Mathematics, 5.—Wentworth's Algebra, pages 130 to 260. Wentworth's Geometry, 4 books.

English, 4.—Raub's Rhetoric; five essays per term corrected and copied; Tennyson, The Princess; Shakespeare, Macbeth; Burke, Conciliation with America; De Quincey, Flight of a Tartar Tribe.

Parallel Reading.—Goldsmith, The Vicar of Wakefield; Coleridge, Ancient Mariner; Milton, Paradise Lost, Books I. and II.; Pope, Iliad, Books I. and XXII.; The Sir Roger de Coverley Papers in The Spectator; Southey, Life of Nelson; Carlyle, Essay on Burns; Lowell, The Vision of Sir Launfal; Hawthorne, The House of the Seven Gables.

Latin, 4.—Four books of Cæsar, or an equivalent; Gildersleeve's Grammar.

History, 3.—Barnes's General History.

Physiology, 2.—Martin's Human Body, Briefer Course, with experiments.

Chemistry, 2.—Williams's Introduction to Chemical Science; lectures and written work.

Civil Government, 1.—Macy's Civil Government, and Johnson's History of American Politics.

Founding, 4.—Moulding; melting and pouring brass and iron; management of cupola. Bollard's Iron Founding; lectures and practice.

Forging, 4.—Management of fire; drawing; welding; riveting; tempering. Lectures and practice.

Mechanical Drawing, 2.—Drawings of machine parts; lettering; line shading, etc.

ENGINEERING AND MECHANIC ARTS COURSE.

FIRST YEAR.		SECOND YEAR.	
	Hours per Week.		Hours per Week.
Mathematics.....	5	Mathematics.....	5
English.....	4	English.....	4
History.....	3	History.....	3
Bookkeeping.....	1	Civil Government.....	1
Drawing.....	1	Physiology.....	2
Woodworking.....	2	Drawing.....	1
		Founding.....	1
		Forging.....	1

NOTE.—Candidates for admission to the Freshman Class in Mechanic Arts and Engineering will be examined in all the subjects required for admission to the University, except Latin.

GENERAL COURSE.

This course prepares students for the courses in Liberal Arts or in Science or for the Normal Course. It gives a limited general education to students who cannot take a collegiate education.

FIRST YEAR.		SECOND YEAR.	
	Hours per Week.		Hours per Week.
Mathematics.....	5	English.....	4
English.....	4	History.....	3
History.....	3	Physiology.....	2
Latin.....	4	Latin.....	4
		Mathematics.....	5

NOTE.—If a student is preparing to enter the scientific courses he may substitute Bookkeeping and Physical Geography for first Latin, and Chemistry and Civil Government for second Latin.

Special courses of study are not allowed in the Preparatory School, but students known to be in poor health or having physical defects which interfere with their studies, are sometimes permitted by the Faculty to defer one or more subjects of study and extend the course over a longer period.

Students who have at any time been enrolled in the Preparatory School, must complete all the studies in one of its courses before dropping preparatory work; and studies in lower classes have precedence over higher ones. A student in the Preparatory School is a member of the highest class with which he has as many as nine recitations per week.



THE MEDICAL SCHOOL.

LITTLE ROCK, ARK.

FACULTY.

P. O. HOOPER, M. D.,

Emeritus Professor of Practice of Medicine.

JAS. A. DIBRELL, M. D.,

Professor of General Descriptive and Surgical Anatomy and
President of Faculty.

EDWIN BENTLEY, M. D.,

Professor of Principles and Practice of Surgery.

JAS. H. SOUTHALL, M. D.,

Professor of Practice of Medicine.

ROSCOE G. JENNINGS, M. D.,

Professor of Clinical Surgery and Dermatology.

C. WATKINS, M. D.,

Professor of Physical Diagnosis and Clinical Medicine.

JAMES H. LENOW, M. D.,

Professor of Diseases of Genito-Urinary Organs.

L. P. GIBSON, M. D.,

Demonstrator of Anatomy and Adjunct Professor of Anatomy.

LOUIS R. STARK, M. D.,

Professor of Gynecology.

E. R. DIBRELL, M. D.,

Professor of Physiology.

FRANK VINSONHALER, M. D.,

Professor of Ophthalmology and Otology.

T. N. ROBINSON,
Professor of Medical Chemistry and Toxicology.

W. H. MILLER, M. D.,
Professor of Obstetrics and Prosector of Anatomy.

F. L. FRENCH, M. D.,
Adjunct Professor of Materia Medica, Therapeutics, Hygiene
and Botany.

All communications should be addressed to

E. R. DIBRELL, M. D.,
Secretary of Faculty,
Little Rock, Ark.



NINETEENTH ANNUAL ANNOUNCEMENT.
OF THE
ARKANSAS INDUSTRIAL UNIVERSITY
MÉDICAL SCHOOL.

The Regular Winter Course of lectures will begin on Monday, November 3, 1897, and continue until April 31, 1898.

Lectures will be delivered daily during the six days of each week.

The matriculation book will be opened from and after September 1 to students desiring to matriculate early and secure choice of seats.

The Preliminary Fall Course, which is given gratis to all students, will begin on Monday, October 5, 1897, and continue to Monday, November 2, 1897, when the winter session opens. This course is in fact a part of the regular course, and is just as important. Students should therefore be on hand promptly October 5.

In making this annual announcement the Faculty feel great satisfaction in referring to the continued success and prosperity of the Medical Department. The cordial indorsement of the Arkansas Medical Society and the generous influence of the medical profession throughout the State, is highly appreciated and encourages the Faculty to continue the arduous labors they have so long and zealously maintained.

ASSOCIATION OF AMERICAN MEDICAL COLLEGES.

At the meeting of the Association of American Medical Colleges at Baltimore, in May, 1895, it was

determined to extend the course of study to four years, and it was resolved with great unanimity to require of all new matriculates, beginning with the school year of 1895-96, as one of the requirements of graduation, that they should attend four courses of lectures of not less than six months each. The Medical Department of the Arkansas Industrial University, being a member of the College Association, adopted and will carry out these requirements.

MATRICULATION.

As required by the rules and regulations of the "Association of American Medical Colleges," students on matriculating are required to present credentials showing that they are matriculates or graduates of recognized colleges of literature, science or arts, of high schools, academies, normal schools, or equivalent schools, or that they have teachers' certificates.

Graduates and matriculates in Medicine, Dentistry or Pharmacy, on presenting credentials showing such, are exempt from the entrance examination.

To avoid delay, students entitled to matriculate *without* examination are requested to bring their certificates with them and present them on arrival at the college.

Students not entitled to exemption, as hereinbefore provided, are required to pass an entrance examination, with the following requirements: the writing of an English composition of not less than 200 words; the translation of easy Latin prose; a knowledge of the elements of Arithmetic or Algebra, and of elementary Physics.

CURRICULUM.

First Year. — Anatomy, Practical Anatomy, Physiology, Chemistry, Physics, Histology and Medical Ethics.

Second Year. — Anatomy, Practical Anatomy, Physiology, Chemistry, Materia Medica, Pathology, Obstetrics.

Third Year.—Materia Medica and Therapeutics, Toxicology, Obstetrics and Diseases of Children, Physical Diagnosis, Diseases of the Eye and Ear, Practice of Medicine, Surgery.

Fourth Year.—Review of all branches, Practice of Medicine, Surgery, Dermatology, Gynecology, Bacteriology, Urinology, Venereal Diseases, Diseases of the Nervous System, Medical Jurisprudence.

LOCATION.

The city of Little Rock is conveniently situated in the center of the State, and railroads enter from every direction, making it easily accessible.

It has a population of more than 40,000, and has always been classed as one of the most healthful cities west of the Mississippi River. Few places can boast of better public schools, colleges and universities than Little Rock. All the eleemosynary institutions of the State are located here. These are the School for the Blind, Deaf Mute Institute and the Insane Asylum.

MEDICAL SCHOOL BUILDING.

The new structure is an imposing edifice, three stories in height, constructed of brick and admirably arranged for the convenience of both students and instructors.

It has a large lecture hall, a fine amphitheater with chairs, a library, a reading room, a museum, several dissecting rooms, all well lighted and ventilated. In fact, it is designed to be a modern and model medical college building. It is situated on Second and Sherman streets.

HOSPITALS.

The Logan H. Roots Memorial Hospital.—By the munificence of the late Col. Logan H. Roots and the benevolence of his widow the city of Little Rock is to have an elegant public hospital.

The commodious building is now completed.

The Medical Department of the University is fortunate in having this hospital situated on lots adjoining their own building, thus promising greatly increased clinical facilities.

The Little Rock Infirmary, designed solely for the treatment of acute diseases, has a capacity of fifty beds. This hospital is splendidly equipped and furnished with modern conveniences and improvements, is in the very best sanitary condition, and under the supervision and management of trained nurses, Sisters of Charity.

The Pulaski County Hospital, erected at a cost of some \$30,000, is a handsome brick structure, well arranged, complete in all its equipments and has a capacity of 200 beds.

Accidents from railways, marine patients, and the sick and injured from the city, county and State, find in these hospitals shelter, food, raiment and that

Christian attention so cheering and comforting in sickness and distress.

The inmates of these different institutions embrace all classes and conditions of people—white, colored, male, female, adults and children—and with them are found almost every form of malady except quarantinable diseases, which are otherwise provided for.

“THE ISAAC FOLSOM CLINIC.”

This clinic is thus designated in honor of the personal life of Dr. Folsom and the friendship and interest this honorable physician and philanthropist entertained for the Medical Department. He legally executed an instrument of writing endowing this clinic with \$20,000, thus perpetuating the *Isaac Folsom Clinic* as a part of this institution.

Every student of this department is required to attend this clinic, and each candidate for graduation must pass an examination on the clinical instruction therein received, and this fact will be specially mentioned on the face of his diploma.

The daily instruction in this clinic is thoroughly practical, and is attended by a large number of outdoor patients from the city and surrounding country. It embraces a wide range of diseases and injuries.

METHODS OF TEACHING.

Instruction will be given by didactic and clinical lectures, practical work in the dissecting room, chemical and physiological laboratories, and by daily quizzes upon the subject of preceding lectures.

When the subject will admit of it, each branch will be so illustrated by means of diagrams, charts,

models and instruments, as to address the understanding of the student through the medium of sight as well as hearing.

EXPENSES OF LIVING, ETC.

The expenses of living in the city of Little Rock will, of course, vary according to the views and habits of students. Good board, at the present time, including lodging, fuel and lights, may be had at a convenient distance from the College, at from \$4 to \$6 per week, and from \$13 to \$18 per month.

Students on their arrival are requested to visit the University building, corner Second and Sherman streets, where a list of parties desiring to board medical students will be found.

Persons desiring further information are requested to address the Secretary of the Faculty.

TERMS.

The fee for a full course of lectures will be:

General Ticket.....	\$50 00
Matriculation Ticket (paid but once).....	5.00
Demonstrator's Ticket (for each course)	5.00
Hospital Ticket (each course).....	3.00
Graduation Fee.....	25 00

No variation is made, under any circumstance, from the established fees of the College, they having been placed originally at the very lowest figure commensurate with the interests of both student and College.

For more specific information and catalogue apply to

E. R. DIBRELL, M. D.,
Secretary of Medical Faculty,
 Little Rock, Ark.

NOTE.—Alumni are requested to inform the Secretary of their present post office address, and of any change of location, in order that they may have the annual catalogue forwarded them regularly.

LAW SCHOOL.

LITTLE ROCK, ARK.

JOHN L. BUCHANAN, A. M., LL. D.,

President of the University.

F. M. GOAR, LL. B.,

Dean of the Law Department.

The Law Course embraces two years divided into four terms. Fall term will commence October 1, and close January 31. Spring term will commence February 1, and close June 1.

COURSE OF INSTRUCTION.

The design of this school is to afford such training in the fundamental principles of the law, as will constitute the best preparation for the practice of the profession anywhere in the United States, and especially in the State of Arkansas. With this view the course of study, which is intended to occupy the student two years, will comprise the following subjects:

JUNIOR YEAR.

First Term.—Contracts, Lawson; Agency, Lectures; Partnership, Lectures; Commercial Paper, Tiedeman; Evidence, Greenleaf, Vol. 1.

NOTE.—The course of the first term of the Junior Year is specially adapted to those who contemplate a commercial life, or life other than the profession of law. It is a heavier course than commercial colleges can afford to give, but a knowledge of the subjects of the course is indispensable to a successful business career. Terms for this course, \$25.

Second Term.—Criminal Law, Harris; Pleading, Stephen; Code Pleadings, Bliss; Judgments, Lectures; Domestic Relations, Lectures; Moot Courts.

SENIOR YEAR.

First Term. — Law of Private Corporations, Cook ; Municipal Corporations, Lectures ; Bailments, Schouler ; Insurance, Lectures ; Torts, Cooley ; Moot Courts.

Second Term. — Real Property, Tiedeman ; Equity Jurisprudence, Bispham ; Constitutional Limitations, Cooley ; Conflict of Laws, Lectures ; Fraud and Fraudulent Conveyances, Lectures ; Leading Cases, Moot Courts.

Students will be matriculated at any time. Books can be purchased here. We do not think it prudent for students to devote less than two years to the foregoing course. "He who is not a good lawyer when he comes to the bar, will seldom be one afterwards," is a saying full of truth.

Thought as well as reading is necessary to the proper understanding of our system of jurisprudence. No man can hope to be a good lawyer by the cramming process. While students are advised not to attempt to complete the full course in a single year, yet if one chooses to make the effort, and has acquired sufficient knowledge of the law from previous reading, he will be admitted to the graduating examination, and if he attains the standard required, he is entitled to his degree. Every candidate for the honor degrees will be required to attend the full term of two years.

EXPENSES.

Tuition, \$50 per session, payable \$10 in advance and \$5 per month thereafter during the session. Books will cost from \$20 to \$30 per year. Board

from \$15 to \$20 per month; by the club system, where the students do their own work, from \$6 to \$10 per month.

Cheap lodgings may be obtained by consulting the Dean before the opening of the session, and the cost of living need not be greater in Little Rock than elsewhere in the State.

Many reasons may be given why young men, contemplating the practice of law in Arkansas should patronize their own law school: 1. In the application of the elementary principles of law in the practice, the reference books must be in the main to the laws of the State where the law school is located, as found in the Constitution, Statutes, and Supreme Court Reports of the State: 2. Emulation and class organization will do much for the law student.

The old way of serving a term in a private law office of a senior at the bar is fast yielding to more modern and better methods.

“The time has gone by when an eminent lawyer in full practice can take a class of students into his office and become their teacher. Once that was practicable, but now it is not. The consequence is that law schools are now a necessity.”—*Chief Justice Waite*.

The law department at Little Rock is exceedingly fortunate in its surroundings. Students have free access to the Supreme Court Library of about 20,000 volumes. Every court known to our system of jurisprudence, both State and Federal, is held in Little Rock during each session of the school, except two (Supreme Court of the United States and Court of Claims at Washington), besides a large and emi-

ment bar to draw our lecturers from, which has manifested great interest in the school from the first.

Again, the associations and friendships formed with representative young men throughout the State are invaluable in many respects to the practitioner.

EXAMINATIONS.

Written examinations are held each term in the presence of a member of the Faculty upon questions handed the student at the time, and on the merit of their papers students will be graded carefully. Diplomas and degrees will be awarded by the Board of Trustees upon the recommendation of the Faculty.

Those of the Senior Class who attain a sufficiently high grade on their examinations will be entitled to the degree of Bachelor of Laws.

Every candidate for this degree is required to file with the Dean an essay or thesis upon some topic connected with his studies.

MOOT COURTS.

Moot courts are held from time to time during the term, in which students discuss cases previously assigned them for that purpose. These courts are presided over by the professor, who, at the conclusion, reviews the arguments and gives his decision upon the points involved. The effort here is to make not merely theoretical but practical lawyers; not to teach principles merely, but how to apply them. To this end, the moot court is made the forum for the discussion of such practical questions as most frequently arise in a professional career at the bar; and the attention of the students is directed not less to the application of the points discussed in actual cases,

than to the elucidation of the legal questions. An opportunity is afforded all the Senior students to participate in this court, and to all Junior students of the second term.

Moot Courts are conducted on the theory that certain facts are true, and that the only subject open to discussion is the rule of law to be applied to them. The student, having obtained a statement of facts, is required to prepare pleadings, and draw up a brief in which the rules of law are stated under appropriate divisions and sustained by authorities which he proposes to rely upon in his oral argument.

The pleadings are submitted to the professor. He calls the student's attention to such errors as may exist, and gives such other practical information as he may deem advisable.

GOAR LYCEUM.

This society is composed of the students of this department, and meets regularly every Thursday night during the session.

All questions of interest to the members are discussed, and preference is shown for those legal in their nature.

This affords to the student that invaluable aid of learning "to think, whilst on his feet," besides giving him an easy manner of address in public speaking.

PROFESSIONAL ETHICS.

While endeavoring to impart legal knowledge, the fact will not be lost sight of that a high moral standing is a most important requisite to a successfu

and honorable career, and no pains will be spared in impressing this fact upon students and inculcating a high tone of professional ethics and action.

For further information address

F. M. GOAR, *Dean*,
Little Rock, Ark.



THE BRANCH NORMAL COLLEGE.

GENERAL STATEMENT.

The Branch Normal College is a department of the Arkansas Industrial University, established pursuant to an act of the General Assembly of the State of Arkansas, approved April 25, 1873, and has been in operation since September 27, 1875. Its primary object is the training of teachers for efficient service in the colored public schools of the State—the law referred to having been enacted with special reference to the “convenience of the poorer classes.” For the purpose of carrying out the intent of the law, tuition is made free to all appointees; the only requirements for admission being suitable age and qualification, and appointment from one of the county judges, and the payment of the entrance fee of \$5. Other students pay, in addition to the above, \$1 per month in advance.

LOCATION, ETC.

The school property consists of a beautiful tract of 20 acres of ground, in the suburbs of Pine Bluff, Jefferson County, Ark., and a few rods from the junction of the Missouri Pacific and the St. Louis and Southwestern railroads. The school building, completed in 1881, and occupied January 30, 1882, is one of the handsomest educational edifices in the State, as well as one of the best, being warm and comfortable, well lighted and ventilated. It contains one large assembly room, four recitation rooms, and cloak room for males and females. The building is

of brick, with slate roof and trimmings of Alabama granite, and cost, with improvements and furniture, \$12,000. The furniture and other equipments are of the best modern style.

The dormitory, a handsome brick building of seventeen rooms, and the Mechanical Department building, are upon the same grounds.

The Normal course of study is intended to be a full equivalent to a regular college course up to and including the Sophomore year; the only difference being the substitution of Pedagogy for Greek and the higher mathematical branches. The college course adds to this the usual studies of the last two years. Twelve classes have graduated from the institution, and the members are now occupying prominent positions in life. The number of students for the year 1896-97 was nearly 200.

THE LIBRARY.

The library consists of over 3,500 volumes, embracing many valuable reference books, such as Appleton's Cyclopædia, Lippincott's Gazetteer, etc. It also has a fine collection of the works of standard authors—Shakespeare, Milton, Irving, Cooper, Dickens, Longfellow, Carlyle, Tennyson. The library of the principal, embracing many valuable text and reference books, including the Encyclopædia Britannica, is also accessible to students. A small collection of minerals, each of which is a typical specimen, and none of which are duplicates, has been procured. During the past year a valuable supply of apparatus has been added to the educational resources of the institution, consisting of an air pump, electrical ma-

chine, standard barometer, batteries, French microscope, spectroscope, sets of weights and measures, common and metric, etc. The outfit of the Mechanical Department is not surpassed, if equalled in quality, by any in the State.

The Reading Room has been fitted up in elegant style and supplied with quite a number of valuable newspapers and periodicals, many of which are furnished by their publishers. Among those on file are the *Freeman*, Indianapolis; *Western Appeal*, Minneapolis; *Gazette*, Huntsville; *The Gazette*, Little Rock; *Globe-Democrat* and *Republic*, St. Louis; *The Tyler*, Detroit, Mich.; *Popular Educator*, Boston; *Lippincott's Educational Quarterly*, *American Student*, New York; *Weekly Echo*, Pine Bluff; *National Baptist*, Philadelphia; *Southern Review*, Helena; *American Machinist*, *Scientific American*, *Popular Educator*, *Nation*, the scientific publications of the State of Arkansas and of the United States, etc.

DORMITORY FOR GIRLS AND BOARDING HOUSE.

The dormitory for female students is under the supervision of the principal and his wife. It is a handsome brick structure, sufficient for the accommodation of thirty or forty students. Board bills are payable monthly in advance, and no deduction is made for loss of time less than one week. Girls staying in the dormitory are required to keep their own rooms and the halls clean, and to assist in turn in the dining room and kitchen. They are expected to furnish their own bed linen, and are held responsible for all damage to furniture in their rooms. They are not to visit each other's rooms, except by invitation

from the occupant, and two are expected to occupy one room. They are not allowed to change rooms, nor to visit in town except by permission. The charge for board, fuel and light thus far has been \$8 per month, in advance, and, if possible, that price will be continued.

MECHANICAL DEPARTMENT.

The operations of this department are under the superintendence of Prof. George M. Peek, Superintendent of Mechanic Arts at Fayetteville, assisted by Prof. W. S. Harris, a graduate of the Miller Manual Labor School of Virginia. The equipment is as follows:

The shop building was completed in February, 1892. It is of brick and covers a plat of ground 70x70, comprising a wood shop 35x35, a foundry 25x25, a blacksmith shop 25x25 and a machine shop 35x25; a boiler room 20x25 and a court 35x20 occupy the remaining space. •

Wood Shop.—The equipment already secured includes twelve benches with complete sets of carpenters' tools, a double-circular sawing machine, a scroll saw, a buzz planer, and six wood turning lathes.

Foundry.—A Colliau cupola capable of melting 1 ½ tons of iron per hour is in position, and the remainder of the outfit will be added shortly. It includes ladles, moulders' tools, flasks, core oven, rumble, etc.

Forge Shop.—Twelve Buffalo forges are in position, the blast being supplied by a blower, and the smoke drawn off by a large exhaust fan. Besides the usual outfit of anvils, hammers, tongs, etc., there is a Buffalo punch shear and bar cutter capable of

cutting off 1-inch bar iron $\frac{1}{2}$ x 3-inch strap iron, or of punching a $\frac{3}{8}$ -inch hole in $\frac{3}{8}$ -inch iron.

Machine Shop.—Among the tools already ordered and partly in place, are a 15-inch crank shaper, 24x24x6 feet planer, 20-inch drill press, 15-inch by 5 feet turret lathe, 18x6-inch engine lathe, 14-inch by 6 feet engine lathe, 12-inch by 50 feet hand lathe, universal milling machine, cutter and reamer grinder, twist drill grinder, power grindstone, dynamo, etc.

Heating and Power Plant.—Two vertical engines of 12-horse power each are in position, also two 30-horse tubular boilers. The piping for feed water is so arranged that the water passes from either pump or injector through a feed water heater to the boilers; and the exhaust piping is so arranged that the exhaust steam from the engines can be used either to heat the feed water or to heat the shops.

Water Supply.—In the court of the shop building a 4-inch Cook tubular well has been put down, which will furnish 1,000 gallons of water per hour. A Cook pump delivers the water to a tank 30 feet above ground, holding 8,000 gallons.

Sanitary Provisions.—The shops are thoroughly well lighted, ventilated, heated and drained. Sewer connection is made to all buildings, and the abundant water supply is used to insure cleanliness in wash room and water closet.

The courses in the department are as follows, viz:

(a) A course in general shop work, extending over three years, followed by a fourth year's work in one of the shops selected by the student. The design

is to enable a young man to choose his trade intelligently and to acquire a sound basis for it.

(*b*) A three year's course in general shop work followed by a fourth year's work in the management of boilers, engines and heating systems. This course is intended to train young men for the practical work of foremen or engineers.

(*c*) A course in general shop work extending over three years, together with class-room work in the theory and practice of teaching, followed by a fourth year's work in handling classes in the shops and in laying out series of practical exercises.

For fuller information respecting this and other departments, reference is made to the catalogue of Branch Normal College.

GENERAL EXERCISES.

In addition to the regular class exercises prescribed in the course of study, there are regular lessons in vocal music, which are open to all the students. The general exercises also include a review of a Sabbath school lesson, review of the events of the week, calisthenics, music and drawing. Music upon instruments—the organ, piano, flute, guitar, etc.—is extra, but very reasonable in price. There are two literary societies, the Junior and Senior, which hold weekly meetings and afford excellent opportunities for practice in oratory, debate and composition. It is required that every student shall become a member and attend the meetings of one of the societies.

The length of the vacation allows the advanced students an opportunity to engage in teaching, and a large proportion of their number have done so

during the last five years. In nearly all cases they have given satisfaction and conduct their schools with a fair degree of success. The Normal students have also assisted in the work of the institution itself as a part of their training.

It will be a great advantage to the institution if the various county judges will take a special interest in seeing that their counties are represented. The proper blanks for making appointments will be furnished, together with all necessary information, on application to the principal.

J. C. CORBIN, A. M.,
Pine Bluff, Ark.



CATALOGUE OF STUDENTS.

Abbreviations.—Agrl., Agriculture; B. A., Bachelor of Arts; B. S., Bachelor of Science; C. E., Civil Engineering; E. E., Electrical Engineering; M. E., Mechanical Engineering; M. A., Master of Arts; M. S., Master of Science; S. E. E., Short Course in Electrical Engineering; Phar., Pharmacy.

SENIORS.

Name.	Course.	Post Office.	County.
Askew, W. H.	B. A.	Magnolia	Columbia.
Braly, E. K.	M. E.	Washington.....	D. C.
Balch, Leon C.	B. S.	Little Rock.....	Pulaski.
Crozier, A. B.	E. E.	Fayetteville.....	Washington.
Campbell, J. L.	B. A.	Greenwood	Sebastian.
Davis, J. H.	E. E.	Forrest City.....	St. Francis.
Howell, Willey	B. S.	Fayetteville.....	Washington.
Leverett, Rose C.	B. A.	Fayetteville.....	Washington.
McCain, W. R.	B. A.	Little Rock.....	Pulaski.
McNeill, Dane A.	M. E.	Fayetteville.....	Washington.
Medearis, R. S.	B. A.	Cincinnati	Washington.
Miller, Daisy E.	B. A.	Fort Smith	Sebastian.
Moore, J. L.	M. E.	Fayetteville.....	Washington.
Morrow, David C.	E. E.	Fayetteville.....	Washington.
Pruett, W. E.	C. E.	Denning	Franklin.
Skelton, J. E.	B. S.	Fayetteville.....	Washington.
Spencer, E. L.	B. A.	Fayetteville.....	Washington.
Vaulx, Katherine D.	B. A.	Fayetteville.....	Washington.

JUNIORS.

Askew, Geo. H.	B. A.	Magnolia	Columbia.
Ayres, Willis E.	C. E.	Osceola	Mississippi.
Bell, M. L.	B. A.	Pine Bluff	Jefferson.
Bevers, A. W.	B. A.	Hindsville	Madison.
Cummings, R. N.	B. A.	Hindsville	Madison.
Eld, Amanda.....	B. A.	Bentonville	Benton.
Finklestein, A., M. D.	S. E. E.	Fayetteville.....	Washington.
Fishback, W. M.	S. E. E.	Fort Smith.....	Sebastian.

NOTE.—The names of students in the Medical and Law Schools at Little Rock, and in the Branch Normal College at Pine Bluff, are not included in this register, but are published in the special catalogues of those schools.

JUNIORS.—Continued.

Name.	Course.	Post Office.	County.
Gates, O. M.....	M. E.....	Fayetteville.....	Washington.
Graham, R. N.....	B. A.....	Fayetteville.....	Washington.
Hardin, Nina V.....	B. A.....	Fayetteville.....	Washington.
Holcombe, Jobelle.....	B. A.....	Fayetteville.....	Washington.
Howard, J. R.....	E. E.....	Malvern.....	Hot Spring.
Lander, Frank C.....	M. E.....	Indianapolis.....	Indiana.
McDaniel, A. J.....	C. E.....	McDaniel.....	St. Francis.
Mitchell, James, Jr.....	B. A.....	Little Rock.....	Pulaski.
Nicholls, George.....	B. A.....	Helena.....	Phillips.
Patterson, Daisy B.....	B. A.....	Springdale.....	Washington.
Patterson, H. A.....	B. A.....	Springdale.....	Washington.
Patterson, Kate.....	B. A.....	Springdale.....	Washington.
Philbeck, R. E.....	B. A.....	Fayetteville.....	Washington.
Price, C. G.....	B. A.....	Snapp.....	Woodruff.
Ross, W. A.....	B. A.....	Fayetteville.....	Washington.
Smith, A. V.....	B. A.....	Warren.....	Bradley.
Spencer, Mamie.....	B. A.....	Fayetteville.....	Washington.
Wiley, Winona.....	B. A.....	Fayetteville.....	Washington.
Wood, W.....	E. E.....	Fayetteville.....	Washington.
Williams, Hattie E.....	B. A.....	Fayetteville.....	Washington.
Williams, Matie.....	B. A.....	Fayetteville.....	Washington.
Young, F. B.....	B. S.....	Springdale.....	Washington.

SOPHOMORES.

Bell, Hettie.....	Normal.....	Fayetteville.....	Washington.
Beavers, W. W.....	B. A.....	Chickasha.....	Ind. Territory.
Bibb, Lillian D.....	B. A.....	Fayetteville.....	Washington.
Blair, J. H.....	C. E.....	Decatur.....	Benton.
Buchanan, Maude.....	Normal.....	Boonsboro.....	Washington.
Buffington, W. R.....	B. A.....	Magnolia.....	Columbia.
Deene, Lula E.....	Normal.....	Center Ridge.....	Conway.
Duncan, Mary E.....	B. A.....	Fayetteville.....	Washington.
Ellis, Miggie M.....	Normal.....	Fayetteville.....	Washington.
Evins, Sallie D.....	B. A.....	Fayetteville.....	Washington.
Fillmore, C. R.....	B. S.....	Pine Bluff.....	Jefferson.
Fitzpatrick, L. A.....	B. A.....	Helena.....	Phillips.
Fowler, G. F.....	B. A.....	Fordyce.....	Dallas.
Frierson, C. D.....	B. A.....	Jonesboro.....	Craighead.
Gallaway, Charlotte.....	B. A.....	Fayetteville.....	Washington.
Gates, H. W.....	B. S.....	Fayetteville.....	Washington.

SOPHOMORES.—Continued.

Name.	Course.	Post Office.	County.
Hardin, Lena J.....	B. A.....	Fayetteville.....	Washington.
Holmes, D. P.....	B. A.....	Nashville.....	Howard.
Howell, Carrie.....	B. A.....	Fayetteville.....	Washington.
Huie, R. W., Jr.....	B. A.....	Arkadelphia.....	Clark.
Hunt, Nellie R.....	B. S.....	Fayetteville.....	Washington.
Johnson, D. F.....	B. A.....	Cauthron.....	Scott.
Johnson, G. B.....	B. A.....	Gipson.....	Scott.
Kirby, F. B.....	B. A.....	Harrison.....	Boone.
Klyce, H. S.....	C. E.....	Fayetteville.....	Washington.
Lackey, Annie.....	B. A.....	Fayetteville.....	Washington.
Lackey, Dot.....	B. A.....	Fayetteville.....	Washington.
Leatherman, G. P.....	B. A.....	Hot Springs.....	Garland.
Lewis, L. L.....	B. S.....	Fayetteville.....	Washington.
Malone, J. E.....	Normal.....	Hackett.....	Sebastian.
May, Mamie.....	B. A.....	Fayetteville.....	Washington.
Melton, H. A.....	S. E. E.....	Fayetteville.....	Washington.
Montgomery, R. D. H.....	Normal.....	Belleville.....	Yell.
Owens, L. F.....	C. E.....	Rogers.....	Benton.
Putnam, L. R.....	S. E. E.....	Fayetteville.....	Washington.
Pace, Kate.....	B. A.....	Harrison.....	Boone.
Purdy, Lizzie N.....	B. S.....	Fayetteville.....	Washington.
Randolph, John.....	B. A.....	Charlottesville.....	Virginia.
Sanders, C. F.....	B. A.....	Hot Springs.....	Garland.
Sappington, Millie K.....	Normal.....	Clarksburg.....	Missouri.
Scoggan, A. H.....	E. E.....	Nashville.....	Howard.
Smith, Christiana.....	B. A.....	Cincinnati.....	Washington.
Snapp, J. H.....	C. E.....	Snapp.....	Woodruff.
Stewart, I. F.....	B. A.....	Springdale.....	Washington.
Thomason, Annie C.....	B. A.....	Fayetteville.....	Washington.
Thomason, Demmie E.....	B. A.....	Fayetteville.....	Washington.
Turner, B. E.....	B. S.....	Cypert.....	Phillips.
Warner, S. A.....	B. A.....	Jonesboro.....	Craighead.
Wassell, F. J.....	B. A.....	Little Rock.....	Pulaski.
Watkins, Wm. H.....	B. A.....	Imboden.....	Lawrence.
Wilmot, John C.....	C. E.....	Rogers.....	Benton.
Wood, G. B.....	B. A.....	Hot Springs.....	Garland.

FRESHMEN.

Name.	Course.	Post Office.	County.
Abernathy, G. C.....	B. A.....	Warren.....	Bradley.
Bacon, W. J.....	B. S.....	Imboden.....	Lawrence.
Barry, Katherine B.....	B. A.....	Fayetteville.....	Washington.
Baker, E. M.....	E. E.....	Fayetteville.....	Washington.
Bates, Nora M.....	B. A.....	Fayetteville.....	Washington.
Beakley, J. D.....	Normal.....	Walnut Ridge.....	Lawrence.
Boatright, W. V.....	B. A.....	Van Buren.....	Crawford.
Brown, E. T.....	C. E.....	Sweet Home.....	Pulaski.
Brown, J. A.....	M. E.....	Sweet Home.....	Pulaski.
Burgess, Edith L.....	B. A.....	Fayetteville.....	Washington.
Burgess, Irene G.....	B. A.....	Fayetteville.....	Washington.
Burton, J. B.....	B. A.....	Hope.....	Hempstead.
Cannon, J. L.....	B. A.....	Lockesburg.....	Sevier.
Collier, Mary T.....	Normal.....	Carrollton.....	Carroll.
Connelly, Sidney.....	B. A.....	Poplar Grove.....	Phillips.
Cookson, S. L.....	M. E.....	Fayetteville.....	Washington.
Crozier, Lizzie E.....	B. A.....	Dutch Mills.....	Washington.
Crozier, Wm. H.....	B. A.....	Dutch Mills.....	Washington.
Cummings, H. D.....	B. A.....	Prairie Grove.....	Washington.
Curry, Merle.....	B. A.....	Fayetteville.....	Washington.
Dean, Arthur.....	B. A.....	Frostville.....	Lafayette.
Deaver, Bertha S.....	Normal.....	Springdale.....	Washington.
Dengler, F. L.....	C. E.....	Hot Springs.....	Garland.
Derrick, R. L.....	B. A.....	Marianna.....	Lee.
Dickinson, T. T.....	B. A.....	Summerville.....	Calhoun.
Driver, E. E.....	S. E. E.....	Osceola.....	Mississippi.
Easterly, Maude.....	Normal.....	Fayetteville.....	Washington.
Edwards, T. A.....	B. A.....	Holla Bend.....	Pope.
Eld, G. W.....	M. E.....	Bentonville.....	Benton.
Fishback, H. Y.....	S. E. E.....	Fort Smith.....	Sebastian.
Fisher, Natta H.....	B. A.....	Ozone.....	Johnson.
Fletcher, Wm.....	B. A.....	Lonoke.....	Lonoke.
Goodwin, W. L.....	B. A.....	El Dorado.....	Union.
Hatcher, J. O.....	B. S.....	Imboden.....	Lawrence.
Hathcock, T. L.....	B. A.....	Sulphur Rock.....	Independence.
Honor, J. L.....	B. A.....	Helena.....	Phillips.
Horsfall, Frank.....	Agr.....	Hazen.....	Prairie.
Howell, Edward.....	B. A.....	Fayetteville.....	Washington.
Hunt, Daisy B.....	B. A.....	Madisonville.....	Tennessee.
Kantz, Mattie V.....	B. A.....	Fayetteville.....	Washington.

FRESHMEN—Continued.

Name.	Course.	Post Office.	County.
Kimbrough, N. D.....	B. A.....	Van Buren	Crawford.
Kitchens, W. H	B. A.....	Waldo	Columbia.
Lawshe, Ida L	B. A.....	Fayetteville	Washington.
Mann, H. D.....	B. A	Augusta	Woodruff.
Mayfield, Minnie	B. A.....	Fayetteville	Washington.
Means, E.....	B. A.....	Charleston	Franklin.
Meritt, May	Normal...	Fayetteville	Washington.
Meritt, Leah	Normal	Fayetteville	Washington.
Moore, B. L	B. A	Van Buren	Crawford.
Morrow, Annie N.....	B. A	Greenwood	Sebastian.
Morrow, Cordia.....	B. A.....	Fayetteville	Washington.
Morrow, Lula	Normal	Fayetteville	Washington.
Oden, J. W	B. A.....	Clifton	Lee.
Oliver, Bessie	B. S.....	Fayetteville	Washington.
Owen, O. J	B. A.....	Conway	Faulkner.
Pace, Troy	B. A.....	Harrison	Boone.
Peninger, Effie	Normal	Auburn	Sebastian.
Pettigrew, Lillian	B. S.....	Fayetteville.....	Washington.
Pitman, Charles	B. A.....	Prescott	Nevada.
Pitman, Dan	B. A.....	Prescott	Nevada.
Pleasants, W. E	B. S.....	Fayetteville	Washington.
Pollard, J. W.....	B. A.....	Gaither.....	Boone.
Pugh, Celeste	B. A.....	Fayetteville	Washington.
Pugh, Cynthia	B. A.....	Fayetteville	Washington.
Rattenbury, W. H	B. A.....	Fayetteville	Washington.
Rodman, E. S.	B. A.....	Altus	Franklin.
Ross, Lucy.....	B. A.....	Fayetteville	Washington.
Rosser, Florence	B. A.....	Fayetteville	Washington.
Rutherford, R. P.....	S. E. E.....	Fort Smith.....	Sebastian.
Saxon, R. L	B. S.....	Smackover.....	Union.
Schindel, L. P	B. S.....	Lehigh ..	Pennsylvania.
Stanford, J. F	B. S.....	Fayetteville	Washington.
Taylor, D. W.....	B. A.....	Pine Bluff.....	Jefferson.
Thompson, Fred.....	B. S.....	Jonesboro	Craighead.
Thurman, S. A.....	B. A.....	Fayetteville ..	Washington.
Tolle, F. A	B. A.....	Fayetteville	Washington.
Trimble, T. C., Jr ..	B. A.....	Lonoke.....	Lonoke.
Tucker, G. W.....	B. A.....	Hindsville	Madison.
Vandeventer, Tommie G.....	B. A.....	Fayetteville	Washington.
Vedder, E. S.....	E. E.....	Fayetteville	Washington.

FRESHMEN—Continued.

Name.	Course.	Post Office.	County.
Webster, Olive S.....	B. A.....	Marvell	Phillips.
Wiley, Elizabeth Pearl.....	B. S.....	Fayetteville	Washington.
Wilkinson, Norman	B. A.....	Charleston	Franklin.
Wright, Wm. L	M. E	Catcher.....	Crawford.
Wurthington, J. A	B. A.....	Green Forest.....	Carroll.
Young, Daisy	B. S.....	Springdale	Washington.

SPECIAL.

Name.	Course.	Post Office.	County.
Adams, C. D	Science.....	Fort Smith.....	Sebastian.
Beavers, Maude	Science.....	Charleston	Franklin.
Bray, E. W.....	Science.....	Charleston	Franklin.
Brown, H. R.....	Arts.....	Little Rock.....	Pulaski.
Buchanan, Grace	Music	Fayetteville	Washington.
Carman, J. T., Mrs.....	Music	Fayetteville	Washington.
Cravens, Jessie L., B. L.....	Arts.....	Fayetteville	Washington.
Davis, Mary A.....	Arts.....	Fayetteville	Washington.
Davis, Maude	Science.....	Fayetteville	Washington.
Earle, Clara, B. A.....	Arts.....	Fayetteville	Washington.
Eason, Evie.....	Music	Fayetteville	Washington.
Gates, Nell	Music	Fayetteville	Washington.
Gunter, Gertrude.....	Music	Fayetteville	Washington.
Hart, Effie.....	Arts.....	Fayetteville	Washington.
Holt, C. L	Science.....	Harrison	Boone.
Johnson, W. P.....	Science.....	Jonesboro.....	Craighead.
Knight, O. T.....	Science.....	Jonesboro.....	Craighead.
Long, Marguerite	Music	Fayetteville	Washington.
Marcheselli, C.....	Arts.....	Fayetteville	Washington.
Nichol, C. M.....	Science.....	Pine Bluff	Jefferson.
Ostrander, Effie	Arts.....	Fayetteville	Washington.
Reynolds, Nora.....	Music	Eureka Springs	Carroll.
Roberts, T. O	Science.....	Rule.....	Carroll.
Simonds, A., B. S.....	Science.....	Fayetteville	Washington.
Thomas, Alice	Music	Fayetteville	Washington.
Truelock, H. E.....	Science.....	Fairfield.....	Jefferson.
Vincenheller, Jeanne	Music	Fayetteville	Washington.
Wilkes, J. A.....	Science.....	Sidney	Sharp.
Williams, J. O	Science.....	Hot Springs.....	Garland.

SUMMARY FOR SESSION OF 1896-97.

BY CLASSES.

Seniors	18
Juniors	30
Sophomores	52
Freshmen	87
Special	29
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	216

BY COURSES.

Bachelor of Arts	115
Bachelor of Science	22
Bachelor of Civil Engineering	10
Bachelor of Mechanical Engineering	9
Bachelor of Electrical Engineering	8
Normal	15
Short Course in Electrical Engineering	7
Agriculture	1
Special Science	13
Special Arts	7
Special Music	9
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PREPARATORY SCHOOL.

SECOND YEAR CLASS.

Name.	Course.	Post Office.	County.
Addisson, E. B	G	Mt. Vernon	Faulkner.
Babb, W. E	G	Fayetteville	Washington.
Baldwin, Richard	E	Little Rock	Pulaski.
Bassett, Cora	G	Fayetteville	Washington.
Baum, Joseph	G	Fayetteville	Washington.
Beakley, W. A	G	Pocahontas	Randolph.
Beavers, Agnes	G	Charleston	Franklin.
Beavers, Virgie	G	Charleston	Franklin.
Bell, Annie Maud	G	Fayetteville	Washington.
Bell, Margie	G	Fayetteville	Washington.
Berry, Elliot	E	Bentonville	Benton.
Black, L. A	G	DeWitt	Arkansas.
Blackwood, Herbert	G	Auvergne	Jackson.
Blaylock, J. C	G	Fayetteville	Washington.
Bostick, J. A	G	Washington	Hempstead.
Brasch, Charles	G	Newport	Jackson.
Brixey, M. O	G	Rogers	Benton.
Brooks, Effie	G	Fayetteville	Washington.
Buchanan, Herbert	G	Boonsboro	Washington.
Buchanan, Mary	G	Boonsboro	Washington.
Butts, R. T	G	Dublin	Logan.
Byrnes, Nellie	G	Fayetteville	Washington.
Campbell, Effie	G	Fayetteville	Washington.
Campbell, W. S	G	Poughkeepsie	Sharp.
Cardwell, Frank	G	Carrollton	Carroll.
Carney, H. C	G	Hobart	Logan.
Christian, Otto	G	Springdale	Washington.
Clark, M. D	G	Waldo	Columbia.
Clayton, John	G	Eureka Springs	Carroll.
Clegg, M. T	G	Siloam Springs	Benton.
Cochrane, C. V	G	Gravett	Benton.
Cox, Mollie	G	Waldron	Scott.
Crawford, J. D	G	Sulphur City	Washington.
Crowley, L. G	G	Paragould	Green.
Crozier, Mary	G	Fayetteville	Washington.
Cunningham, B.	G	Dardanelle	Yell.
Curry, Clarence	E	Fayetteville	Washington.

SECOND YEAR CLASS.

Name.	Course.	Post Office.	County.
Davis, J. M.....	E.....	Choccoloco.....	Mississippi.
Dawson, W. F.....	G.....	Greenwood.....	Sebastian.
Dengler, F. L.....	G.....	Hot Springs.....	Garland.
Dixon, J. M.....	E.....	Sweet Home.....	Pulaski.
Dowell, Ernest.....	E.....	Fayetteville.....	Washington.
Dowell, Pearl.....	G.....	Fayetteville.....	Washington.
Droke, G. P.....	G.....	Fayetteville.....	Washington.
Dunn, J. L.....	E.....	Fayetteville.....	Washington.
Eichelberger, Fannie.....	G.....	Fayetteville.....	Washington.
Ellis, Gertrude.....	G.....	Fayetteville.....	Washington.
Ellis, W. Y.....	E.....	Fayetteville.....	Washington.
English, Laura.....	G.....	Dutch Mills.....	Washington.
Evatt, Estella.....	G.....	Waldron.....	Scot.
Fancher, Marie.....	G.....	Berryville.....	Carroll.
Fellheimer, Hermann.....	E.....	Hot Springs.....	Garland.
Foreman, Walter.....	G.....	Marianna.....	Lee.
Forester, Minnie.....	G.....	Waldron.....	Scott.
Gaskill, Lettie.....	G.....	Fayetteville.....	Washington.
George, W. E.....	G.....	Berryville.....	Carroll.
Gray, John.....	G.....	Hickory Valley.....	Independence.
Gray, R. A.....	G.....	Altus.....	Franklin.
Gray, Winfield.....	G.....	Oil Trough.....	Independence.
Hamiter, Emmet.....	G.....	Walnut Hill.....	Lafayette.
Hamiter, Eugene.....	G.....	Walnut Hill.....	Lafayette.
Henderson, S. L.....	G.....	Fayetteville.....	Washington.
Hendrix, J. T.....	G.....	Wallaceburg.....	Hempstead.
Hill, Lola.....	G.....	Fayetteville.....	Washington.
Horsfall, Thomas.....	G.....	Hazen.....	Prairie.
Hudgins, W. H.....	G.....	Dallas.....	Polk.
Johns, W. H.....	G.....	Fayetteville.....	Washington.
Johnson, A. E.....	G.....	Caglesville.....	Pope.
Johnson, Waldo.....	E.....	Paris.....	Texas.
Johnston, Frank.....	G.....	Ozark.....	Franklin.
Jones, Doswell.....	E.....	Fayetteville.....	Washington.
Kantz, Willie.....	G.....	Fayetteville.....	Washington.
Kell, Bessie.....	G.....	Fayetteville.....	Washington.
King, Ruby.....	G.....	Harrison.....	Boone.
Lake, Horton.....	G.....	Fayetteville.....	Washington.
Little, Paul.....	G.....	Greenwood.....	Sebastian.
Lyon, Minnie.....	G.....	Fayetteville.....	Washington.

SECOND YEAR CLASS.

Name.	Course.	Post Office.	County.
Mathews, G. V.	E.	Eureka Sp'ngs.	Carroll.
Matlock, T. T.	G.	Tulip	Dallas.
Martin, W. A.	G.	Indian Bay	Monroe.
Martin, C. B.	G.	Fort Worth	Texas.
Martin, E. G.	G.	Little Rock	Pulaski.
McDaniel, Volney	E.	Bentonville	Benton.
McDonald, C. M.	G.	Slatonville	Sebastian.
McHatton, J. A.	E.	Robinson	Benton.
McLendon, L. E.	G.	Gravel Ridge	Bradley.
McMillan, Oscar	G.	Fayetteville	Washington.
McNeill, Leslie	E.	Fayetteville	Washington.
Means, J. H.	G.	Hampton	Calhoun.
Melton, Hattie.	G.	Fayetteville	Washington.
Meritt, May	G.	Fayetteville	Washington.
Middleton, R. J.	E.	Fayetteville	Washington.
Miller, Mabel	G.	Van Buren	Crawford.
Miller, Othniel	G.	Van Buren	Crawford.
Moore, Fred	E.	Fayetteville	Washington.
Moore, Nellie	G.	Fayetteville	Washington.
Nettleship, Milroy	E.	Fayetteville	Washington.
Nix, R. E.	E.	Fayetteville	Washington.
Oliver, Cora	G.	Fayetteville	Washington.
Parks, Bessie	G.	Fayetteville	Washington.
Patterson, Mae	G.	Fayetteville	Washington.
Phillips, Mamie	G.	Fayetteville	Washington.
Pond, George	G.	Fayetteville	Washington.
Pugh, Kate	G.	Fayetteville	Washington.
Read, Florida	G.	Fayetteville	Washington.
Richardson, Carrie	G.	Charleston	Franklin.
Rodman, Evan	G.	Altus	Franklin.
Ross, H. L.	G.	Boonsboro	Washington.
Sellers, Calvin	G.	Morrilton	Conway.
Shuler, G. W.	G.	Fayetteville	Washington.
Shuler, R. N.	G.	Fayetteville	Washington.
Simms, Bradley ..	G.	Harrison	Boone.
Slaughter, J. L.	G.	Goshin	Washington.
Smeltzer, Homer	G.	Van Buren	Crawford.
Smith, Gertrude	G.	Fayetteville	Washington.
Smith, J. R.	E.	Etna	Franklin.
Smith, W. H.	E.	Fayetteville	Washington.

SECOND YEAR CLASS.

Name.	Course.	Post Office.	County.
Smith, Oscar.....	G.....	Waldron.....	Scott.
Staggs, P. T.....	G.....	Hope.....	Hempstead.
Stephens, George.....	G.....	Newport.....	Jackson.
Sutherland, L. C.....	G.....	Ozark.....	Franklin.
Taylor, Lena.....	G.....	Fayetteville.....	Washington.
Tilley, Ada.....	G.....	Fayetteville.....	Washington.
Tilley, Mary.....	G.....	Fayetteville.....	Washington.
Turner, J. C.....	E.....	Cypert.....	Phillips.
Vincenheller, Ashton.....	E.....	Fayetteville.....	Washington.
Vining, Fred.....	G.....	Pine Bluff.....	Jefferson.
Waddell, J. B.....	G.....	Paris.....	Logan.
Wade, L. A.....	G.....	Fayetteville.....	Washington.
Walker, H. O.....	G.....	Newport.....	Jackson.
Walker, J. F.....	E.....	Beebe.....	White.
Wallace, Ethel.....	G.....	Fayetteville.....	Washington.
Walters, A. J.....	G.....	Bellfonte.....	Boone.
Warner, T. D.....	G.....	Jonesboro.....	Craighead.
Wasson, Alfred.....	G.....	Elm Springs.....	Washington.
Watkins, Stella.....	G.....	Fayetteville.....	Washington.
Watts, N. V.....	E.....	Waldon.....	<i>Ind. Territory.</i>
Weast, Lucian.....	G.....	Yellville.....	Marion.
Weast, Virgil.....	G.....	Yellville.....	Marion.
Whitlow, Annie.....	G.....	Fayetteville.....	Washington.
Williams, Lilly.....	G.....	Fayetteville.....	Washington.
Winn, J. E.....	G.....	Nashville.....	Howard.
Wolford, Thomas.....	E.....	Fayetteville.....	Washington.
Wood, Cora.....	G.....	Fayetteville.....	Washington.
Woods, Ethel.....	G.....	Batesville.....	Independence.

FIRST YEAR CLASS.

Name.	Course.	Post Office.	County.
Alden, Minnie.....	G.....	Osage Mills.....	Benton.
Allen, Victor E.....	G.....	Ozark.....	Franklin.
Ayres, Arthur.....	E.....	Osceola.....	Mississippi.
Babb, Effie.....	G.....	Fayetteville.....	Washington.
Baker, Ida Rivers.....	G.....	Fayetteville.....	Washington.
Baker, Sadie.....	G.....	Fayetteville.....	Washington.
Balch, Robert T.....	E.....	Little Rock.....	Pulaski.
Barton, Richard B.....	G.....	Mound City.....	Crittenden.
Bates, Joseph R.....	E.....	Fayetteville.....	Washington.

FIRST YEAR CLASS.

Name.	Course.	Post Office.	County.
Bates, Beulah	G	Fayetteville	Washington.
Bates, William Earl	G	Fayetteville	Washington.
Baxter, J. W	G	Hackett	Sebastian.
Bell, M. T	G	Hackett	Sebastian.
Beller, Claude	E	Cincinnati	Washington.
Benham, Albert	G	Marianna	Lee.
Berry, L. P	E	Marion	Crittenden.
Berry, Mary	G	Marion	Crittenden.
Bibb, May	G	Poplar Grove	Phillips.
Blackmer, Lillie	G	Fayetteville	Washington.
Blair, J. I	E	Fayetteville	Washington.
Blanchard, C. P	E	Fayetteville	Washington.
Blew, C. D	E	Wheeler	Washington.
Bookout, Carrie	G	Johnson	Washington.
Brookover, J. C	E	Fayetteville	Washington.
Brown, Fred	E	Sweet Home	Pulaski.
Brownfield, Eleanor	G	Fayetteville	Washington.
Bryant, Minnie	G	Fayetteville	Washington.
Buchanan, Frank	G	Fayetteville	Washington.
Burgess, Myrtie	G	Fayetteville	Washington.
Burton, Percy	G	Hope	Hempstead.
Byrnes, Bessie	G	Fayetteville	Washington.
Campbell, Jud	G	Fayetteville	Washington.
Campbell, Lizzie	G	Moffit	Washington.
Carter, Elmo	E	Riverside	Woodruff.
Cherry, Ulphin	E	Paw Paw	<i>Ind. Territory.</i>
Clancy, Nellie	G	Fayetteville	Washington.
Clancy, William	E	Fayetteville	Washington.
Clark, Ira	G	Enders	Faulkner.
Clark, J. H.	G	Goshen	Washington.
Cleaver, W. H.	G	Burnsville	Sebastian.
Cole, Carl	E	Boonsboro	Washington.
Collins, Rosa	G	Arma	<i>Texas.</i>
Cowan, John	E	Osceola	Mississippi.
Cowdrey, E. E	E	Yellville	Marion.
Cox, Conway	E	Fayetteville	Washington.
Cox, Gilbert	E	Fayetteville	Washington.
Crump, George	G	Fort Smith	Sebastian.
Curry, Henry	E	Clarksville	Johnson.
Davis, Claude	E	Fayetteville	Washington.

FIRST YEAR CLASS.

Name.	Course.	Post Office.	County.
Davenport, Fannie.....	G.....	Fayetteville.....	Washington.
Davies, Edith.....	G.....	Fayetteville.....	Washington.
Dorsey, C. C.....	E.....	Fayetteville.....	Washington.
Dowdle, Joseph.....	E.....	Morrilton.....	Conway.
Driver, Jettie.....	E.....	Osceola.....	Mississippi.
Duncan, Annie.....	G.....	Fayetteville.....	Washington.
Dunn, William F.....	G.....	Fayetteville.....	Washington.
Dyer, S. J.....	G.....	Dyer.....	Crawford.
Dykes, J. A.....	G.....	Kingsland.....	Cleveland.
Eason, Bessie.....	G.....	Fayetteville.....	Washington.
Elliott, Frank.....	G.....	Hot Springs.....	Garland.
English, Artelee.....	G.....	Dutch Mills.....	Washington.
English, J. A.....	E.....	Dutch Mills.....	Washington.
Farmer, R. L.....	E.....	Clarksville.....	Johnson.
Fisher, Thomas.....	G.....	Clarksville.....	Johnson.
Frye, E. M.....	G.....	Sallisaw.....	<i>Ind. Territory.</i>
Galloway, Rowena.....	G.....	Fayetteville.....	Washington.
Greathouse, Harleston.....	E.....	Vinita.....	<i>Ind. Territory.</i>
Greathouse, R. B.....	G.....	Vinita.....	<i>Ind. Territory.</i>
Green, C. B.....	G.....	Blanchard Spgs Union.	
Griffin, E. H.....	E.....	Fayetteville.....	Washington.
Griffin, Genevieve.....	G.....	Fayetteville.....	Washington.
Gunnell, Garland.....	G.....	Mount Adams.....	Arkansas.
Hamilton, Harry.....	E.....	Jonesboro.....	Craighead.
Hanesworth, May.....	G.....	Fayetteville.....	Washington.
Haney, Ada.....	G.....	Bentonville.....	Benton.
Harper, Marvin.....	E.....	Three Creeks.....	Union.
Harris, Jettie.....	G.....	Fayetteville.....	Washington.
Harrison, E. O.....	E.....	Fayetteville.....	Washington.
Hariman, Frances.....	G.....	Carmel.....	Chicot.
Havis, W. K.....	G.....	La Cross.....	Izard.
Heller, Eunice.....	G.....	Salem.....	<i>Virginia.</i>
Henry, Norborne.....	G.....	Bentonville.....	Benton.
Herring, B. L.....	G.....	Moro Bay.....	Bradley.
Hill, Ethel.....	G.....	Fayetteville.....	Washington.
Hill, Hugh.....	E.....	Fayetteville.....	Washington.
Hindman, Tabitha.....	G.....	Fayetteville.....	Washington.
Hinds, Frank.....	G.....	Rogers.....	Benton.
Hogg, Cora.....	G.....	Fayetteville.....	Washington.
Hudson, Mattie.....	G.....	Fayetteville.....	Washington.

FIRST YEAR CLASS.

Name.	Course.	Post Office.	County.
Huggins, Demus.....	G.....	Ozark.....	Franklin.
Humphrey, Sherwood.....	G.....	Cato.....	Franklin.
Hunt, Howard.....	E.....	Fayetteville.....	Washington.
Isbell, Virginia.....	G.....	Fayetteville.....	Washington.
Jackson, B. P.....	E.....	Indian Bay.....	Monroe.
Jenkins, Walter.....	E.....	Little Rock.....	Pulaski.
Johnson, Ollie.....	G.....	Johnson.....	Washington.
Jones, J. A.....	E.....	Hattieville.....	Conway.
Jones, Nora.....	G.....	Fayetteville.....	Washington.
Jones, Oscar.....	G.....	Newport.....	Jackson.
Jordan, Fannie.....	G.....	Fayetteville.....	Washington.
Jordan, Nellie.....	G.....	Fayetteville.....	Washington.
Kantz, Fred.....	E.....	Fayetteville.....	Washington.
Klyce, Duke.....	E.....	Fayetteville.....	Washington.
Klyce, Harry.....	G.....	Fayetteville.....	Washington.
Knesal, Ada.....	G.....	Fayetteville.....	Washington.
Laughinghouse, Eloise.....	G.....	Fayetteville.....	Washington.
Little, Jessie.....	G.....	Greenwood.....	Sebastian.
Littlejohn, H. N.....	G.....	Evansville.....	Washington.
Long, Charles.....	G.....	Corning.....	Clay.
Maguire, Eva.....	G.....	Fayetteville.....	Washington.
Mann, Bertha.....	G.....	Winslow.....	Washington.
Martin, La Roy.....	E.....	Warren.....	Bradley.
Mason, J. P.....	G.....	Harris.....	Washington.
Mayo, J. M.....	E.....	Lamberton.....	Monroe.
Mayo, W. D.....	E.....	Lamberton.....	Monroe.
McClanahan, Carrie.....	G.....	Fayetteville.....	Washington.
McDaniel, Lloyd.....	G.....	McDaniel.....	St. Francis.
McKeever, James.....	E.....	Chicago.....	Illinois.
McKinney, J. J.....	G.....	Cravens.....	Franklin.
McLendon, J. S.....	G.....	Green Ridge.....	Bradley.
Mesler, Rector.....	G.....	Fayetteville.....	Washington.
Michell, Russell.....	E.....	Gillett.....	Arkansas.
Miles, Whitney.....	E.....	Palmer.....	Monroe.
Monroe, Dora.....	G.....	Fayetteville.....	Washington.
Montgomery, M. F.....	G.....	Mt. Adams.....	Arkansas.
Morgan, W. S.....	G.....	Wagoner.....	Ind. Territory.
Morgan, W. W.....	G.....	Star City.....	Lincoln.
Neely, John.....	G.....	Fayetteville.....	Washington.
Norman, W. S.....	E.....	Fayetteville.....	Washington.

FIRST YEAR CLASS.

Name.	Course.	Post Office.	County.
Oliver, Victor E.....	G.....	Revilee	Logan.
Payne, Douglas	E.....	Fayetteville.	Washington.
Payne, Bessie.....	G.....	Fayetteville.	Washington.
Philbeck, J W	E.....	Fayetteville.	Washington.
Philips, C. O	G.....	Fayetteville.	Washington.
Pike, William	G.....	Violet.....	Arkansas.
Pond, Kate.....	G.....	Fayetteville.	Washington.
Potts, T. O	G.....	Paris	Logan.
Prall, George	G.....	Jonesboro	Craighead.
Quarles, Tevie	G.....	Fayetteville.	Washington.
Ranes, W. H	E	Bloomer	Sebastian.
Read, William	G.....	Fayetteville.	Washington.
Rees, W. A.	E.....	Fayetteville.	Washington.
Robertson, James	E.....	Farmington.....	Washington.
Robinson, Fannie	G.....	Fayetteville.	Washington.
Robinson, Lester.....	E.....	Lamberton	Monroe.
Robinson, Mary.....	G.....	Fayetteville.	Washington.
Robinson, Pearl.....	G.....	Fayetteville.	Washington.
Root, Cleo.....	G.....	Fayetteville.	Washington.
Rosser, Annie.....	G.....	Fayetteville.	Washington.
Rosser, E. R.....	G.....	Howell.....	Woodruff.
Rosser, Olga.....	G.....	Fayetteville.	Washington.
Rosser, W. B	G.....	Howell.....	Woodruff.
Rowe, Hill	G.....	Austin	Texas.
Searcy, Fred	G.....	Buckner	Columbia.
Sloan, Meek	G.....	Marsden	Bradley.
Smith, Carl	G.....	Stephens	Ouachita.
Smith, C. E	E.....	Marion	Crittenden.
Spencer, Felix	E.....	Fayetteville.....	Washington.
Stone, B. H	E.....	Fayetteville	Washington.
Stone, S. K	G.....	Fayetteville.....	Washington.
Strickland, J. S.....	G.....	Lockesburg.....	Sevier.
Tharp, Maggie.....	G.....	Fayetteville.....	Washington.
Thomas, D. S	E.....	Muskogee	Ind. Territory.
Thomas, G. S.....	G.....	Clarendon	Monroe.
Thompson, J. M.....	G.....	Violet	Arkansas.
Thompson, J. T	G.....	Russellville	Pope.
Thompson, Ollie.....	G.....	Success	Clay.
Trussell, Lawrence	G.....	Sumpter	Bradley.
Vaughan, A. J	G.....	Whitener	Madison.

FIRST YEAR CLASS.

Name.	Course.	Post Office.	County.
Vaulx, Eleanor.....	G.....	Fayetteville.....	Washington.
Vaulx, Susie	G.....	Fayetteville.....	Washington.
Walker, Erin	G.....	Fayetteville.....	Washington.
Wallis, Alfred.....	G.....	Sumpter	Bradley.
Webster, Fay	E.....	Ashley	<i>Louisiana.</i>
White, May	G.....	Fayetteville.....	Washington.
White, T. C	G.....	Fayetteville	Washington.
Whitehead, Joseph	G.....	Fayetteville.....	Washington.
Whitthorne, J. D.....	G.....	Carmel	Chicot.
Wilkes, Minerva	G.....	Fayetteville.....	Washington.
Williamson, A. W	E.....	Jackson	<i>Mississippi.</i>
Winham, John	G.....	Edson	Miller.
Wolford, C. R	E.....	Fayetteville.....	Washington.
Wood, Mattie	G.....	Fayetteville	Washington.
Wood, W. W	E.....	Hampton	Calhoun.
Wright, Fannie	G.....	Van Buren.....	Crawford.
Wright, Myrtle..	G.....	Van Buren.....	Crawford.

SUMMARY FOR SESSION OF 1896-97.

BY CLASSES.

Second year.....	147
First year	187
Total	334

BY COURSES.

Engineering.....	82
General.....	250
Total	332

GENERAL SUMMARY, 1896-97.

Preparatory Students	334
Collegiate Students..	216
Music Pupils	18
Total.....	568
Names counted twice.....	12
Total at Fayetteville	556
Medical Students (Little Rock).....	91
Law Students (Little Rock)	22
Branch Normal Students (Pine Bluff)	181
Grand Total	850

ALUMNI ASSOCIATION.

The object of this association is to maintain the interest of the graduates in the institution and bring them into closer relation with the University. To this end all graduates are considered members. The association holds meetings annually during commencement week. The officers of the association for 1894 are :

J. N. TILLMAN, President.

MISS MATTIE PATTON, Secretary.

Committee on Banquet:

J. V. WALKER,

G. W. DROKE,

MRS. J. F. MAYES,

MISS JESSIE CRAVENS.

Committee on Speaker:

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NOTE.—The President will be pleased to receive information as to the address and occupation of those members of the Alumni for whom these data are wanting. The Alumni are especially requested to give notice of any omissions or errors in the foregoing list.

*Deceased.



APPENDIX.

SPECIMEN EXAMINATIONS FOR ADMISSION TO FRESHMAN CLASS.

Examinations will be of the same general character as the following:

I. ARITHMETIC. 1 hour.

First, second, third, fourth and fifth questions same as in examination for admission to the Preparatory School, page 109.

6. See Wentworth's Arithmetic, page 236, example 9.

7. See Wentworth's Arithmetic, page 261, example 5.
September, 1896.

II. ALGEBRA. 1½ hours.

1. Resolve the following into factors:

$$x^6 - y^6, (x+y)^3 - (x-y)^3, x^2 - 2xy + y^2 + 5x - 5y.$$

2. Show that $a^3b + ab^3 > 2a^2b^2$, a and b being unequal and positive.

3. Extract the square root of
 $m^8 - 4m^7 + 10m^6 - 20m^5 - 44m^4 + 35m^3 + 46m^2 - 40m + 25$.

4. Simplify:
 $[\{ (a^{-m})^{-n} \}^p]^q \div [\{ (a^m)^n \}^{-p}]^{-q}.$

5. Multiply $4 + 1\sqrt{-3}$ by $4 - 1\sqrt{-3}$.
Divide $41\sqrt{-20}$ by $-21\sqrt{-25}$.

6. Solve: $x + 2y + 3z = 6$.
 $2x + 4y + 2z = 8$.
 $3x + 2y + 8z = 101$.

7. Solve:
 $x^2 - (m+n)x = \frac{1}{4} (p+q+m+n) (p+q-m-n).$
September, 1896.

III. GEOMETRY. 1½ hours.

Demonstrate the following propositions:

1. The medians of a triangle meet in a point which is two-thirds of the distance from each vertex to the middle point of the opposite side.

2. An angle formed by a tangent to a circle and a chord

through the point of contact is measured by one-half the intercepted arc.

3. The bisector of an angle of a triangle divides the opposite side into segments proportional to the other two sides.

4. Define "geometrical locus"—prove that the locus of the vertexes of all right triangles, having a given hypotenuse as base, is the circumference described upon the given hypotenuse as diameter.

5. Show how to construct a mean proportional between two given lines.

6. The common chord of two intersecting circles, if produced, will bisect their common tangents.

September, 1896.

IV. UNITED STATES HISTORY. 1 ½ hours.

About four such topics as the following:

N. B.—Give attention to dates and places.

1. Causes leading to the discovery of America.
 2. English explorations and their results.
 3. Exploration and early settlements in Arkansas.
 4. The kinds of government among the colonies; explain each.
 5. A sketch of the period 1783-1789.
 6. An account of Jefferson's administration.
 7. Meaning of "The Monroe Doctrine," "Nullification," "The Missouri Compromise," "The Tariff," "Bimetallism."
- September, 1896.

V. GENERAL HISTORY. 1 hour.

About four such topics as the following:

N. B.—Give attention to dates and places.

1. Dynasties and Civilization of Ancient Egypt.
2. The Hebrew Monarchy from 1095 B. C. to 97 B. C.
3. Causes and results of the Peloponnesian War in Greece.
4. An account of the reign of Augustus Cæsar.
5. A sketch of William the Conqueror.
6. The Crusades and their results.
7. The French Revolution.

September, 1896.

VI. PHYSIOLOGY. 1 hour.

1. Describe the structure of the femur.
2. How does the blood plasma differ from the blood serum?

3. Describe the formation of a blood clot.
 4. Define the terms "afferent," "efferent," "voluntary," "involuntary," "reflex."
 5. Name and give the most important characteristics of eight of the principal tissues of the body.
- September, 1896.

VII. GEOGRAPHY.

1. What is the value of latitude and longitude on the earth?
2. (a) What mountain ranges would you cross in traveling westward from Lincoln, Neb., to the Pacific coast? (b) What cities would you pass through or near? (c) What rivers and lakes would you cross?
3. Name the principal water indentations on the coast of the continent that has the most irregular outline.
4. Write what you know of the climate and products of South America.
5. (a) If you wanted to go to California in August, what railroad route would you take? (b) Through what States would you travel? Between what railroad routes could you choose?

VIII. LATIN. 2 hours.

Translate Cæsar's Gallic War, Book I., chapter 22, from *prima luce* to *abstinebat*.

1. Give principal parts of *abesset*, *accurrit*, *teneri*, *cognovisse*, *instruit*.
2. Explain cases of *luce*, *equo*, *quem*, *ei*, *tempore*.
3. Explain uses of modes in *teneretur*, *teneri*, *fieret*.
4. Compare *prima*, *summus*, *proximum*, *longius*.
5. Give the whole indicative mode of *voluerit*, and the whole subjunctive of *abesset*, and translate the first person of each tense.
6. Decline *passibus*, *eum*, *quem*, *insignibus*, *uno*.
7. Parse *hostium*, *occupari*.

Translate Book II., chapter 32, from *ad hæc* to *dixerunt*.

Translate into Latin:

1. He will order the lieutenant to send soldiers as a relief to our men.
2. We are so many in number that we can easily keep their army from the march.
3. If they make peace with us, we shall go into that part where they wish us to be.
4. We cannot see the mountain, although it is of great height.
5. We shall march through Geneva at Sunset, because we are not more than 20 miles distant.

September, 1896.

SPECIMEN EXAMINATIONS FOR ADMISSION TO FIRST YEAR IN THE PREPARATORY SCHOOL.

Examinations will be of the same general character as the following:

I. ARITHMETIC. 2 hours.

1. A man invested $\frac{2}{5}$ of his capital in bank stock, $\frac{1}{4}$ in real estate, $\frac{1}{10}$ in mining and had left \$6,000. Find capital.
 2. Find product of .0075 and .021 and divide result by .0025.
 3. Four-fifths of \$20 is $\frac{2}{3}$ of how much money?
 4. Divide 34 bushels, 3 pecks, 4 quarts, by 9.
 5. A house worth \$8,000 rents for \$720. What per cent of its value does it rent for?
 6. By selling a horse for \$90 a man gains 20 per cent of its cost. Find cost of horse.
 7. Find interest of \$51.25 for 1 year and 30 days at 6 per cent.
 8. How much money must be invested in 8 per cent stock at 92 to produce \$400?
 9. What is the difference between bank discount and true discount?
- September, 1896.

II. GEOGRAPHY. 1 hour.

1. Name in their order twenty rivers flowing into the Atlantic Ocean or its arms, between the Bay of Fundy and the Florida Keys.
 2. Name the principal cities of Louisiana, Texas, Ohio, Illinois, Michigan, and Minnesota (one city each), and describe their situation.
 3. Describe the climate and productions of Mexico.
 - 4 and 5. What and where are the following? Give exact locations: Aconcagua, Aral, Baikal, Bothnia, Ceylon, Delhi, Farewell, Formosa, Hecla, Munich, Ponchartrain, Sunda, Verde, Volga, Yukon.
- September, 1896.

III. GRAMMAR.

1. Define *sentence*, *phrase*, *imperative sentence*, *noun*, *common noun*, *proper noun*, *number*, *case*.
2. What is analysis? Subject of sentence? Predicate of sentence.
3. Write plural of *horse*, *knife*, *lady*, *fly*, *brush*, and decline *man*, *child*, *woman*, *church*.

4. What is tense? Conjugation? Transitive verb? Mode?
5. Give principal parts of *am*, *think*, *see*, *do*, *go*.
6. Define *simple sentence*, *complex sentence*, and write one of each kind.

Analyze the following sentences (without diagram) and also parse the words in italics.

7. (1) We *rowed* on a pretty lake where *water lilies* grow.
- (2) *Nerves* are white *cords* that run *through* all parts of our *bodies*.
- (3) When showers *fall*, plants lift *up* their heads.
- (4) *Live* not *for* yourselves alone.

September, 1896.



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BEQUESTS TO THE UNIVERSITY.

Forms of bequests are given below in the hope that the friends of education will aid the Trustees and Faculty in their earnest efforts to enlarge and perpetuate the work of the University.

1. I devise and bequeath to the Trustees of the Arkansas Industrial University at Fayetteville..... dollars for its permanent endowment.

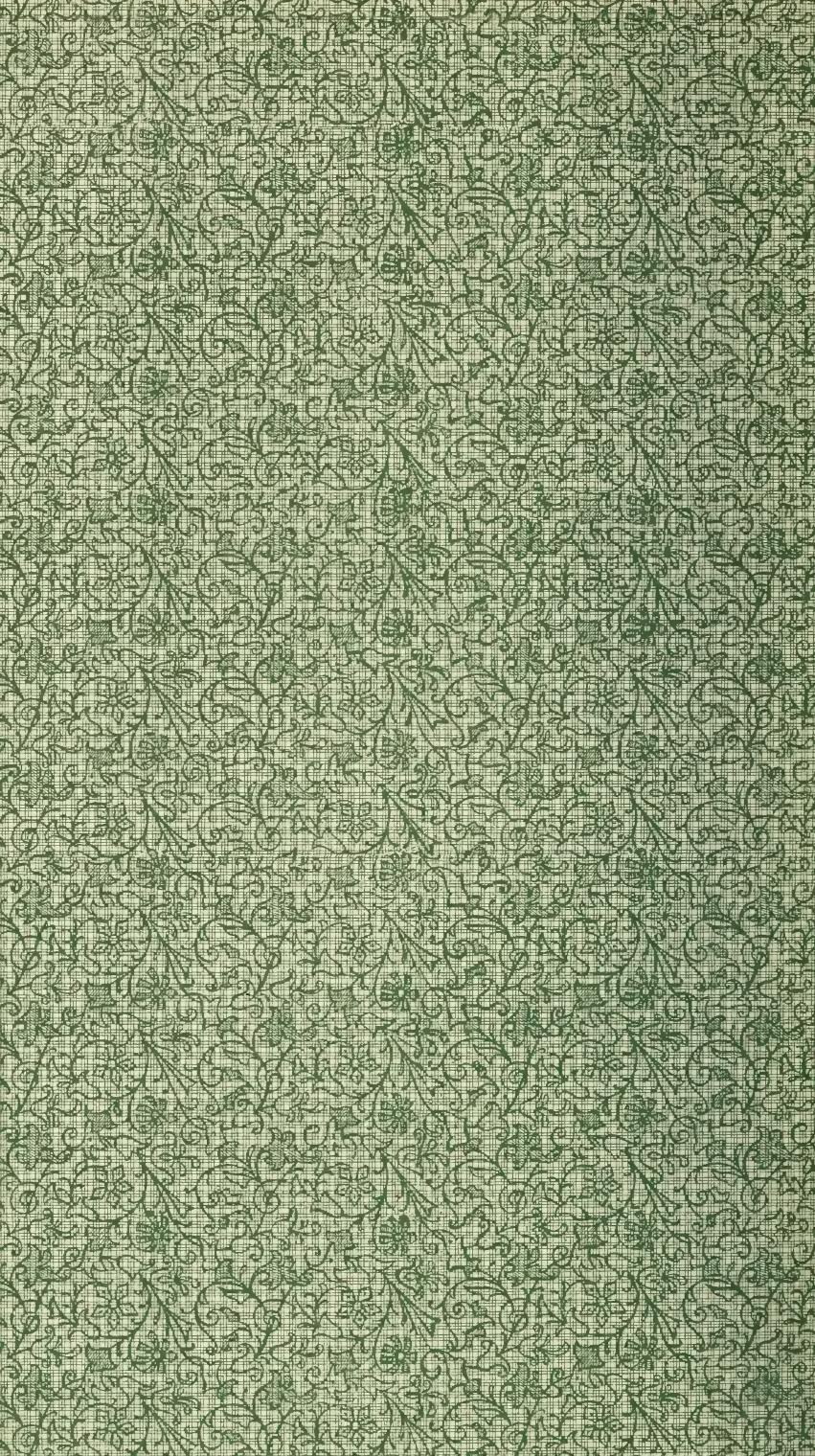
2. I devise and bequeath to the Trustees of the Arkansas Industrial University at Fayetteville \$30,000 for the endowment of a professorship of in said University.

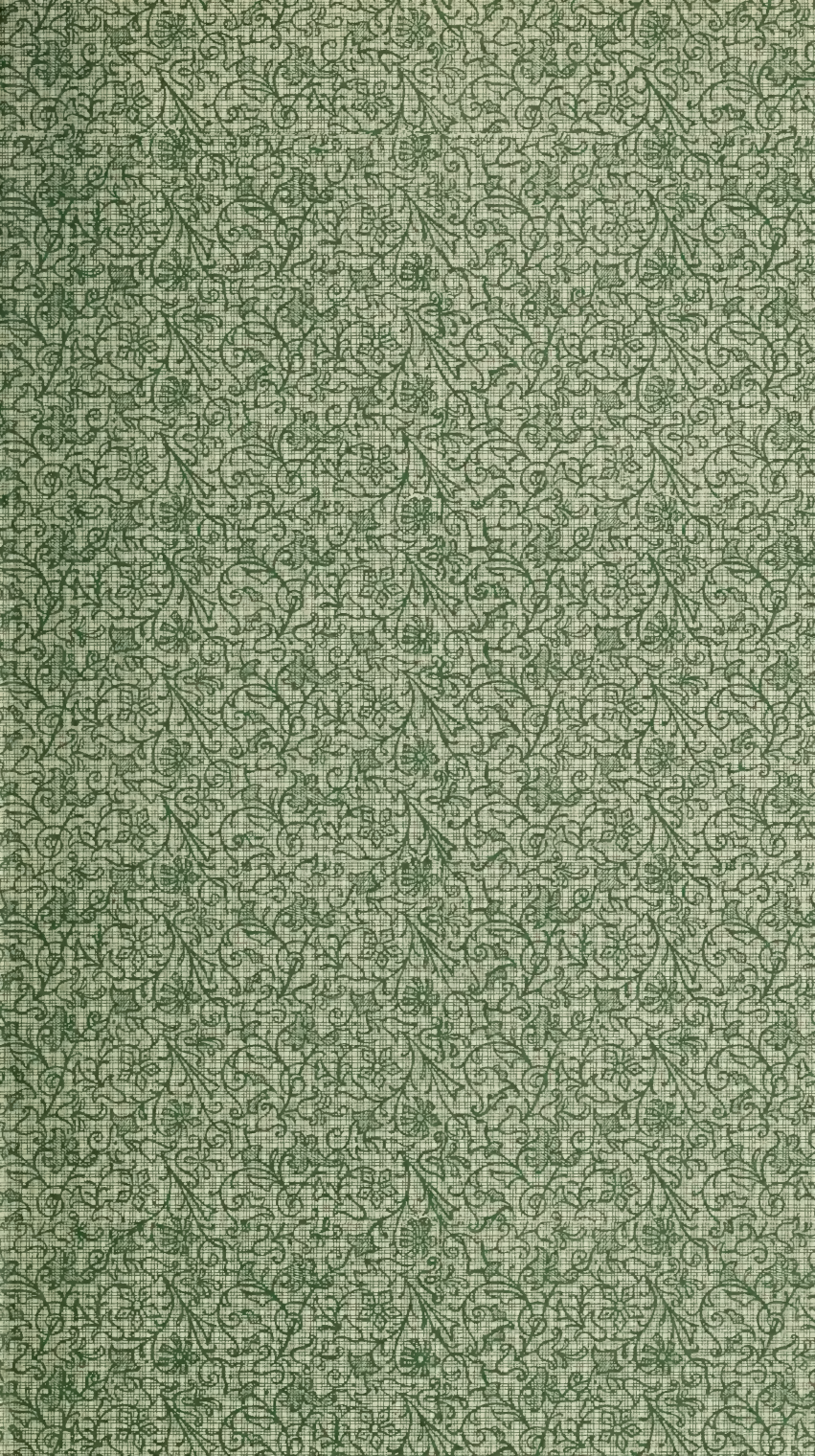
3. I devise and bequeath to the Trustees of the Arkansas Industrial University at Fayetteville, \$3,000 (or \$4,000 or \$5,000) for the endowment of a fellowship in the department of in said University.

4. I devise and bequeath to the Trustees of the Arkansas Industrial University at Fayetteville \$1,500 for the endowment of a scholarship in said University.

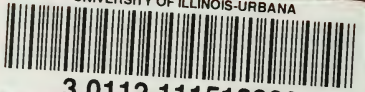
5. I devise and bequeath to the Trustees of the Arkansas Industrial University at Fayetteville..... dollars to increase the library of said University.







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